



# भारत का राजपत्र The Gazette of India

प्राधिकार से प्रकाशित  
PUBLISHED BY AUTHORITY

सं० 23] नई दिल्ली, शनिवार, जून 10, 1989 (ज्येष्ठ 20, 1911)

No. 23] NEW DELHI, SATURDAY, JUNE 10, 1989 (JYAISTHA 20, 1911)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके  
Separate paging is given to this Part in order that it may be filed as a separate compilation

## भाग III—खण्ड 2

### [PART III—SECTION 2]

पेटेंट कार्यालय द्वारा जारी की गई पेटेंटों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

[Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE

Patent Office Branch,  
61, Wallajah Road,  
Madras-600 002.

PATENTS AND DESIGNS

Calcutta, the 10th June 1989

Telegraphic address "PATENTOFIS".

ADDRESS AND JURISDICTION OF OFFICES OF  
THE PATENT OFFICE

The States of Andhra Pradesh, Karnataka, Kerala, Tamil-nadu, and the Union Territories of Pondicherry, Laccadive, Minicoy and Aminidivi Islands.

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Patent Office (Head Office),  
"NIZAM PALACE", 2nd M.S.O. Building,  
5th, 6th and 7th Floor,  
234/4, Acharya Jagadish Bose Road,  
Calcutta-700 020.

Patent Office Branch,  
Todi Estates, III Floor, Lower Parel (West),  
Bombay-400 013.

Telegraphic address "PATOFFICE".

Telegraphic address "PATENTS".

The States of Gujarat, Maharashtra, and Madhya Pradesh, and the Union Territories of Goa, Daman and Diu and Dadra and Nagar Haveli.

Rest of India.

Patent Office Branch,  
Unit No. 401 to 405, III Floor,  
Municipal Market Building,  
Saraswati Marg, Karol Bagh,  
New Delhi-110 005.

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 or the Patents Rules, 1972 will be received only at the appropriate Offices of the Patent Office.

Telegraphic address "PATENTOFIC".

The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan and Uttar Pradesh and the Union Territories of Chandigarh and Delhi.

*Fees* :—The fees may either be paid in cash or may be sent by Money Order or Postal Order, payable to the Controller at the appropriate Offices or by bank draft or cheque, payable to the Controller drawn on a scheduled bank at the place where the appropriate office is situated.

(555)

## पेटेंट कार्यालय

एकसूत्र तथा अभिकल्प

कलकत्ता, दिनांक 10 जून, 1989

## पेटेंट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटेंट कार्यालय का प्रधान कार्यालय कलकत्ते में अवस्थित है तथा बम्बई, दिल्ली एवं मद्रास में इसके शाखा कार्यालय हैं, जिनके प्रादेशिक क्षेत्राधिकार जौन के आधार पर निम्न में प्रदर्शित हैं :—

पेटेंट कार्यालय शाखा, टोडी इस्टेट गुजरात, महाराष्ट्र तथा मध्य तीसरा तल, लोअर परेल (पश्चिम), प्रदेश राज्य क्षेत्र एवं संघ बम्बई-400 013 ।

शामित क्षेत्र गोआ, दमन तथा दिव एवं दादरा और नगर हवेली ।

तार पता—“पेटोफिस”

पेटेंट कार्यालय शाखा,

एक सं० 401 से 405, तीसरा तल, नगरपालिका बाजार भवन, सरस्वती मार्ग, करोल बाग, नई दिल्ली-110 005 ।

हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान तथा उत्तर प्रदेश राज्य क्षेत्रों एवं संघ शासित क्षेत्र, चंडीगढ़ तथा दिल्ली ।

## APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE, 234/4, ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed under section 135, of the Patents Act, 1970.

The 27th April 1989

326/Cal/89. Siemens Aktiengesellschaft. Sintered contact material based on silver for use in power-engineering switchgear, in particular for contact pieces in low-voltage switches.

327/Cal/89. Johannes Gerhardus christianus geerts. Conveyor system, conveyor for buffer and distribution system, and process for transforming a goods flow.

(Convention dated 30th January, 1989) Australia.

The 28th April 1989

328/Cal/89. Siemens Aktiengesellschaft. Steam power plant.

329/Cal/89. Schlumberger Industries, Inc. Laminated semiconductor sensor with overpressure protection.

330/Cal/89. Franz Plasser Bahnbaumaschinen-Industrie gesellschaft m. b. H. A travelling on track machine arrangement for placing and removing sleepers.

The 2nd May 1989

331/Cal/89. David John Deeks. Needle.  
(Convention date 6th May, 1988 and 1st July, 1988) Both are Australia.

तार पता—“पेटोफिस”

पेटेंट कार्यालय शाखा,  
61, वालाजाह रोड,  
मद्रास-600 002 ।

आंध्र प्रदेश, कर्नाटक, केरल, तमिलनाडु राज्य क्षेत्र एवं संघ शासित क्षेत्र पाण्डिचेरी, लक्षद्वीप, मिनीकाय तथा एमिनिदिवी द्वीप ।

तार पता—“पेटोफिस”

पेटेंट कार्यालय (प्रधान कार्यालय), भारत का अविशेष क्षेत्र ।  
निजाम पैलेस, द्वितीय बहुतलीय कार्यालय भवन, 5, 6 तथा 7वां तल, 234/4, आचर्य जगदीश बोस रोड, कलकत्ता-700 020 ।

तार पता—“पेटेंट्स”

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपेक्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए जायेंगे ।

शुल्क :—शुल्कों की अदायगी या तो नकद की जायेगी अथवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अथवा डाक आदेश या जहाँ उपयुक्त कार्यालय अवस्थित है; उस स्थान के अनुसूचित बैंक से नियंत्रक को भुगतान योग्य बैंक ड्राफ्ट अथवा चेक द्वारा की जा सकती है ।

The 3rd May 1989

332/Cal/89. Minal Kanti Routh. Circuit for reuse of west and long life for new fluorescent lamp.

333/Cal/89. Waymate limited. Process of treating carbon to reduce the ash amount therein, the treated carbon being suitable for use as filter medium.  
(Convention date 19th February, 1985) Australia.

[Divisional date 18th February, 1986)].

334/Cal/89. E. I. Du pont de nemours and company. Preparation of mixtures of butanediols.

335/Cal/89. Mitsui Toatsu chemicals, Inc. Polysulfide base resin lens and process for preparing the same.

336/Cal/89. Kazakhsky Gosudarstvenny universitet imeni s. m. kitova. Device for measuring moisture content of soil and water storage of snow.

337/Cal/89. Mezhotraslevoi Nauchno-Tekhnicheskoy Komplex "Mikrokhirurgiya Glaza". Device for treatment of diseases of the optic tract.

The 4th May, 1989

338/Cal/89. Mahendra Patel and Balakrushna Padhi. Alumina fibre through natural fibre route.

339/Cal/89. Ortho Pharma Private Limited. An improvement manufacturing process for tobutamide.

340/Cal/89. Vsesojuzny Nauchno-Issledovatel'skiy I Proektny Institut Aluminievoy, Magnievoy I Elektrodoznoi Promyshtvenosy. Device for atomizing a liquid.

## The 5th May 1989

- 341/Cal/89. Elopak Systems Ag. Sterilization (Convention date 5th May, 1988) U.K.
- 342/Cal/89. Catalytica, Inc. Process for obtaining substantially aldehyde-free ketone products.
- 343/Cal/89. Reseal International Limited. Collapsible container for flowable substances.

## The 8th May 1989

- 344/Cal/89. Degussa Aktiengesellschaft. Process for the preparation of zeolite NaA.
- 345/Cal/89. Mr. D. B. Barat and Dr. H. N. Sethna. Improved ring and ring traveller composites for textile spinning machines.
- 346/Cal/89. Communications Satellite Corporation. Dual-Polarized printed circuit antenna having its elements, including gridded printed circuit elements, capacitively coupled to feedlines.
- 347/Cal/89. Company 'A' Foam Limited. Foam composite and method of forming same.

(Convention date 8th May, 1989) U.K.

## APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, IIIRD FLOOR, KAROL BAGH, NEW DELHI-5

## The 17th April 1989

- 339/Del/89. Thumswamy Joseph David. "Improvement in or relating to alarm wall clock".
- 340/Del/89. Sultan Singh Jain. "A tap removal liquid closer".
- 341/Del/89. Sawadi Exports Pvt. Ltd., "Pile driving apparatus".

(Convention date 15th May, 1989) U.K.

- 342/Del/89. Motorola Inc., "Control technique for an RF munications systems".
- 343/Del/89. The lubrizol Corporation, "A lubricating oil composition". [Divisional date 10th July, 1986].
- 344/Del/89. The Lubrizol Corporation, "An asphalt composition". [Divisional date 10th July, 1986].
- 345/Del/89. Pepp'ermine Springs Pty. Ltd., "Improvements to hydraulic ram pumps". (Convention date 14th April, 1988) (Australia).

## The 19th April 1989

- 346/Del/89. Council of Scientific and Industrial Research, "Cereal based low alcoholic beverage".
- 347/Del/89. Council of Scientific & Industrial Research, "An improved process for long chain ( $C_{18}$ ,  $C_{24}$ ) monounsaturated and saturated fatty alcohols and fatty acids from jojoba oil" or hydrogenated jojoba oil".
- 348/Del/89. Council of Scientific & Industrial Research, "A process for the preparation of alkyl acrylate vinyl acetate copolymers as fluidity improvers and wax deposit inhibitors and petroleum crude oil composition containing the said polymers".
- 349/Del/89. Williams Hi-Tech International Pty. Ltd., "Track support for agricultural machines".
- 350/Del/89. Alcan International Ltd., "Sol-gel method of making ceramics". (Convention date 22nd April, 1988) (U.K.).
- 351/Del/89. Mobil Power AG., "Power generator".
- 352/Del/89. Pannevis B. V., "Method and device for removing liquid from a mixture of solids and liquids".

## The 20th April 1989

- 353/Del/89. The Electricity Council, "Electromagnetic valve". (Convention date 25th April, 1988) (U.K.).
- 34/Del/89. Howa Machinery, Ltd., "Combing cylinder utilized for combing machine".
- 355/Del/89. M & T Chemicals Inc., "Electroplating bath for depositing functional, at high efficiencies, chromium which is bright and smooth".
- 356/Del/89. Caoutchouc Manufacture Et Plastiques, "A variable speed transmission device".
- 357/Del/89. National Research Development Corporation, "Poly-vinyl-phosphonic acid and metal oxide or cermet or glass ionomer cement". (Convention date 27th April, 1988) (U.K.).

## The 21st April 1989

- 358/Del/89. Stein Industrie, and Others, "A machine for remotely lining the inside of a heat exchanger tube and with a sleeve".
- 359/Del/89. The Lubrizol Corporation, "A hydrocarbon oil composition". [Divisional date 14th October, 1986].
- 360/Del/89. International Business Machines Corporation, "Relational databases". (Convention date 5th July, 1988) (U.K.).
- 361/Del/89. Beda Oxygeniechnik Armaturen GMBH., "Compact lance with apparatus to prevent twisting of the lance".
- 362/Del/89. Joseph P. Laico & Others, "Tension measuring device for limb supporting device for arthroscopic surgery".

## APPLICATIONS FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, 61, WALLAJAH ROAD, MADRAS-600 002

## The 24th April 1989

- 305/Mas/89. Maschinenfabrik Rieter AG. Adjustable grid for the extraction arm of a bale opener machine.
- 306/Mas/89. Hoechst Aktiengesellschaft. Dioxane adduct of 2-hydroxynaphthalene-6-carboxylic acid and process for the preparation thereof.
- 307/Mas/89. Anthony Mathew Loncer Gregory Donald Davies, & Thomas Brough. Chemical Composition. (April 22, 1988) (Australia).

## The 25th April 1989

- 308/Mas/89. Issac Stanly. Improved connecting rod for internal combustion engines.
- 309/Mas/89. Biofine Incorporated. Lignocellulose Degradation.
- 310/Mas/89. Pro-Neuron, Inc. Pharmaceutical compositions containing deoxyribonucleosides for wound healing.
- 311/Mas/89. Framatome. Device and process for screwing and unscrewing a nut on a coupling member.
- 312/Mas/89. Institut Francais Du Petrole. Synthesis of new gallosilicates with a MFI Structure.
- 313/Mas/89. The South India Textile Research Association. A combined drop and mist lubrication device for supplying predetermined quantity of lubricant automatically to the different parts of knitting machine at known intervals.

The 26th April 1989		161961	162148	162148	162172	162492	162514	162528
214/Mas/89. Maschinenfabrik Rieter AG. Method of reducing the tackiness of the fibres of cotton flocks contaminated by honeydew, by brief heating of the....		162540	162549	162600	162630	162668	162682	162684
		162707	162735	162743	162779	162797	162832	162835
		162838	162850	162853	162859	162863	162869	162873
		162874	162879	162881	162899	162917	162918	162923
315/Mas/89. Maschinenfabrik Rieter AG. A method and apparatus for reducing the tackiness of the fibres of cotton flocks contaminated with honeydew, by the supply of heat.		162929	162931	162939	162941	162956	162959	162961
		162962	162963	162964	162965	162966	162967	162968
		162969	162970	162971	162972	162974	162975	162976
		162978	162979	162980	162981	162982	162985	162987
316/Mas/89. Chew-Y En Cheng Sing-Wang Cheng & Wu-Cheh Chenc. Methods and apparatuses for conducting solid-liquid-vapor multiple phase transformation operations.		162991	162992	162993	162994	162995	162996	162997
		162998	162999	163000	163001	163002	163003	163004
		163005	163006	163007	163008	163009	163010	163011
		163012	163013	163014	163015	163017	163018	163020
317/Mas/89. Dailichi Seiyaku Co. Ltd. Optically active pyridonecarboxylic acid derivatives.		163022	163023	163024	163027	163031	163032	163035
		163036	163039	163041	163044	163053	163054	163056
		163057	163060	163061	163062	163063	163064	163065
		163066	163067	163068	13069	163070	163071	163072
319/Mas/89. FMTT, Inc. Matrix Transformer having high dielectric isolation.		163073	163076	163077	163078	163079	163080	163081
		163082	163083	163084	163085	163086	163087	163088
		163089	163090	163092	163093	163094	163095	163096
		163097	163098	163099	163100	163101	163102	163103
321/Mas/89. Separation Dynamic, Inc. Method and apparatus for water decontamination.		163104	163105	163106	163107	163108	163109	163110
		163111	163112	163113	163114	163115	163116	163117
		163118	163119	163121	163122	163123	163124	163125
		163126	163127	163129	163130	163131	163132	163133
322/Mas/89. Cultor Ltd. Cross-linked glucoseisomerase.		163134	163135	163136	163137	163138	163139	163140
		163141	163142	163143	163144	163146	163147	163148
		163149	163150	163151	163152	163153	163154	163155
		163156	163157	163158	163159	163161	163162	163163
323/Mas/89. WEH Erwin and WEH Wolfgang. Pressure-sealed plug coupling.		163164	163165	163166	163169	163171	163172	163173
		163175	163176	163177	163178	163179	163180	163181
		163182	163183	163184	163185	163186	163187	163188
		163189	163190	163191	163192	163193	163194	163195
324/Mas/89. Minnesota Mining and Manufacturing Company. Filter Element.		163196	163197	163198	163200	163201	163202	163203
		163204	163205	163206	163207	163208	163209	163210
		163211	163212	163213	163214	163215	163216	163217
		163218	163219	163221	163222	663223	163224	163225
325/Mas/89. Minnesota Mining and Manufacturing Company. Energy Curable Compositions : Two component curing agents.		163226	163227	163228	163229	163230	163232	163233
		163234	163235	163236	163237	163238	163240	163241
		163242	163243	163244	163245	163248	163249	163250
		163251	163252	163253	162254	163255	163256	163257
326/Mas/89. Minnesota Mining and Manufacturing Company. Energy curable compositions, single component curing agents.		163258	163259	163261	163262	163264	163265	163266
		163267	163267	163269	163270	163271	163272	163273
		163275	163276	163279	163280	163281	163282	163284
		163285	163286	163287	163288	163289	163291	163292
327/Mas/89. Union Carbide Corporation. Process for the preparation of high purity alpha-olefin polymers		163293	163294	163295	163296	163297	163298	163299
		163300	163302	163303	163304	163305	163306	163308
		163309	163310	1633311	163312	163313	163314	163315
		163316	163318	163319	163320	163321	163322	163323
328/Mas/89. Valathappan Muthiah. A device for reducing the shock produced by collision of vehicles.		163324	163325	163326	163327	163328	163329	163330
		163331	163332	163333	163335	163336	163337	163338
		163339	163340	163341	163342	163343	163345	163346
		163347	163348	163349	163350	163351	163352	163353
OPPOSITION PROCEEDINGS		163354	163355	163356	163357	163358	163359	163360
(1)		163361	163362	163363	163364	163365	163366	163367
An opposition has been entered by Cemindia Company Limited to the grant of patent on application No. 163890 made by Dr. Anil Krishna Kar.		163368	163369	163370.				
(2)								
The opposition entered by Luthra Import Substitutes Industries to the grant of a patent on application No. 161729 made by Vereinigte Fulikörper-Fabriken-GMBH & Co. has been dismissed and ordered that a patent shall be sealed on this application.								
PRINTED SPECIFICATION PUBLISHED								
A limited number of printed copies of the undernoted specifications are available for sale from the Patent Office, Calcutta and its branches at Bombay, Madras and New Delhi at two rupees per copy :—								
142644	163862	143863	144394	144907	145773	162496		
154320	155074	155099	156694	156165	160851	161031		

## PATENTS SEALED

162825 163857 162858 162873 162874 162960 163109  
 163182 163184 163186 163189 163190 163237 163238  
 163326 163407 163472 163505 163506 163508 163518  
 163523 163526 163537 163540 163541 163542 1663544  
 163546 163547 163548 163559 163564 163565 163569  
 163570 163579 163580 163597.

CAL = 15.

BOM = 1

DEL = 13

MAS = 10.

## AMENDMENT PROCEEDINGS UNDER SECTION 57

Amendment Proceedings under Section 57 in connection with Patent No. 978/MAS/84 (162973) as advertised in the Gazette of India, Part III, Section 2 dated 29-10-1988 has been allowed.

## AMENDMENT

Specification No. 154579

In pursuance of leave granted on 26th April, 1989 under Section 78 of the Patents Act, 1970, the specification has been amended as follows :—

Delete Claim-2

## AMENDMENT UNDER SECTION-78 OF THE PATENTS ACT, 1970

In the printed patent specification No. 154579 Claim-2 has been deleted.

Specification No. 155556

In pursuance of leave granted on 4th May, 1989, under Section-78 of the Patents Act, 1970, the specification has been amended as follows :—

DELETE Claims 8 to 13.

## AMENDMENT UNDER SECTION-78 OF THE PATENTS ACT, 1970

In the printed Patent specification No. 155556 Claims 8 to 13 have been deleted.

## RENEWAL FEES PAID

143397 143896 144609 145739 146157 146859 146896  
 147515 149270 149743 149744 149931 150590 150709  
 150788 151075 151260 151794 152021 152165 152350  
 152423 152890 153475 153960 154269 154622 154633  
 154651 154910 155565 155858 156007 156282 156596  
 156598 156664 156733 156922 156969 157344 157793  
 157812 157876 158030 158682 158772 159096 159123  
 159202 159396 159504 159983 160326 160722 161026  
 161347 161627 161638 161812 162005 162655 162666.

## RESTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No. 159445 dated the 29th Sept. 1983 made by Diversified Products Corporation on the 14-7-88 and notified in the Gazette of India, Part III, Section 2 dated the 14-1-89 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 157580 dated the 27th April 1983 made by

Dr. Pharokh Dhunjishaw Sunavala on the 9-12-87 and notified in the Gazette of India, Part III, Section 2 dated the 21-5-88 has been allowed and the said patent restored.

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents on any of the applications concerned, may, at any time within four months of the date of this issue or within such further period not exceeding one month applied for on Form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months, give notice to the Controller of Patents on the prescribed Form 15, of such opposition. The written statement of opposition should be filed along with the said notice or within one month of its date as prescribed in Rule 36 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depot, 8, Kiran Sankar Roy Road, Calcutta, in due course. The price of each specification is Rs. 2/- (postage extra if sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with photo copies of the drawings, if any, can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office. Photo copying charges may be calculated by adding the number of pages in the specification and drawing sheets mentioned below against each accepted specification and multiplying the same by four to get the charges as the copying charges per page are Rs. 4/-.

## स्वीकृत सम्पूर्ण विनिर्देश

एतद्वारा यह सूचना दी जाती है कि सम्बद्ध आवेदनों में से किसी पर पेटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, उसके निर्गम की तिथि से 4 महीने या अग्रिम ऐसी अवधि जो उक्त 4 महीने की अवधि की समाप्ति के पूर्व पेटेंट नियम 1972 के तहत विहित प्रपत्र 14 पर आवेदित एक महीने की अवधि से अधिक न हो के भीतर कभी भी नियंत्रक, एकत्र को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर दे सकते हैं। विरोध सम्बन्धी लिखित वक्तव्य; उक्त सूचना के साथ अवधि पेटेंट नियम, 1972 के नियम 36 में विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिर्देश के संदर्भ में नीचे दिए वर्गीकरण, भारतीय वर्गीकरण तथा अन्तर-राष्ट्रीय वर्गीकरण के अनुरूप है।"

नीचे सूची गत विनिर्देशों की सीमित संख्या में मुद्रित प्रतियां, भारत सरकार बुक डिपो, 8, किरण शंकर राय रोड, कलकत्ता में विक्रय हेतु यथा समय उपलब्ध होंगी। प्रत्येक विनिर्देश का मूल्य 2/- रु० है। (यदि भारत के बाहर भेजे जायें तो अतिरिक्त डाक खर्च)। मुद्रित विनिर्देश की आपूर्ति हेतु मांग पत्र के साथ निम्नलिखित सूची में यथा प्रदर्शित विनिर्देशों की संख्या संलग्न रहनी चाहिए।

रूपांकन (चित्र आरेखों) की फोटो प्रतियां यदि कोई हों; के साथ विनिर्देशों की टंकित प्रतियां फोटो प्रतियों की आपूर्ति पेटेंट कार्यालय, कलकत्ता द्वारा विहित लिप्यान्तरण प्रभार (उक्त कार्यालय से पत्र व्यवहार द्वारा सुनिश्चित करने के उपरान्त उसकी प्रदायगी पर की जा सकती है। विनिर्देश की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिर्देश के सामने नीचे वर्णित चित्र आरेख कागजों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्यान्तरण प्रभार 4/- रु० है) फोटो लिप्यान्तरण प्रभार का परिचयन किया जा सकता है।

CLASS : 33-D.

164811

Int. Cl. : B 22 d 37/00.

**A METHOD FOR PRODUCING A CAST PRODUCT FROM MOLTEN METAL AND A CASTING MOULD THEREFOR.**

Applicant : INTERCOM GMBH, OF BERGISCHE GLADBACH, FRIEDRICH-EBERT-STR., D-5060 BERGISCHE GLADBACH, WEST GERMANY.

Inventors : (1) WILFRIED LEICH, (2) ARNO BIGING, (3) JOACHIM BARZANTNY.

Application No. 22/C/86 filed January 13, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

A method for producing metal cast which comprises pouring molten metal into a casting mould and allowing the cast to cool and solidify while maintaining the level of molten metal in the pouring-in opening of the mould characterized by the improvement wherein the desired level of the molten metal in the pouring-in opening is maintained based on the mutual induction values raised between two induction coils superposed over one another, both accommodated concentrically around the said pouring-in opening the desired level of the molten metal in the pouring-in opening almost coinciding with the superposed level/region of the said two coils, the mutual induction values of the said two coils being indicated by suitable indicating devices operably connected to said coils, pouring the molten metal through the said pouring-in opening into the casting mould while the induction coils are operably connected, allowing the level of molten metal to rise to the desired pre-set level, thereafter reducing or cutting off the pouring rate of molten metal when the change in mutual induction levels is noticed as the level of molten metal raises above the superposed region of said induction coils, restarting the pouring operation when needed to maintain the level of molten metal at the said desired level.

Compl. Specn. 13 pages.

Drg. 1 sheet.

CLASS : 154-F.

164812

Int. Cl. : G 03 f 3/00.

**METHOD OF PRINTING ON A SHEET MEMBER A REALISTIC REPRODUCTION OF A COLOURED ORIGINAL.**

Applicant & Inventor : WALLACE EDWARDS, OF P.O. BOX 1265, STATION B, WESTON ONTARIO, M9G 2R9, CANADA.

Application No. 153/Cal/86 filed February 28, 1986.

Convention dated 11th June, 1985 (Canada) (48368).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 12 Claims

A method of manufacturing a printing system, suitable for use in printing on a sheet member a realistic reproduction of a colored original, characterised in that :

a first printing plate, intended to print a non-process red color, is created by (a) making a green filter exposure of the original on a first means for recording a first optical image, and (b) making a blue filter exposure of the original on said first means said steps (a) and (b) being carried out sequentially in any order;

a second printing plate, intended to print a second color different from that printed by said first plate, is created by (c) making a red filter exposure of the original on a second means for recording a second optical image, and (d) making a blue filter exposure of the original on said second means, said steps (c) and (d) being carried out sequentially in any order;

the arrangement being such that the said first and second printing plates, created in any order as above, are capable of being used to print said red color and said different color, respectively, as superimposed impressions on said sheet member, to obtain the realistic reproduction of the coloured original on sheet member.

Compl. Specn. 17 pages.

Drg. Nil.

CLASS : 26.

164813

Int. Cl. : A 47 I 5/00; 11/00.

**DEVICE FOR CLEANING DIRTY SURFACE E. G. OF FLOOR/CARPET.**

Applicant & Inventor : NABA KUMAR BANDO-PADHAY, OF 144 JODHPUR PARK, CALCUTTA-700 068, WEST BENGAL, INDIA.

Application No. 220/Cal/86 filed March 18, 1986.

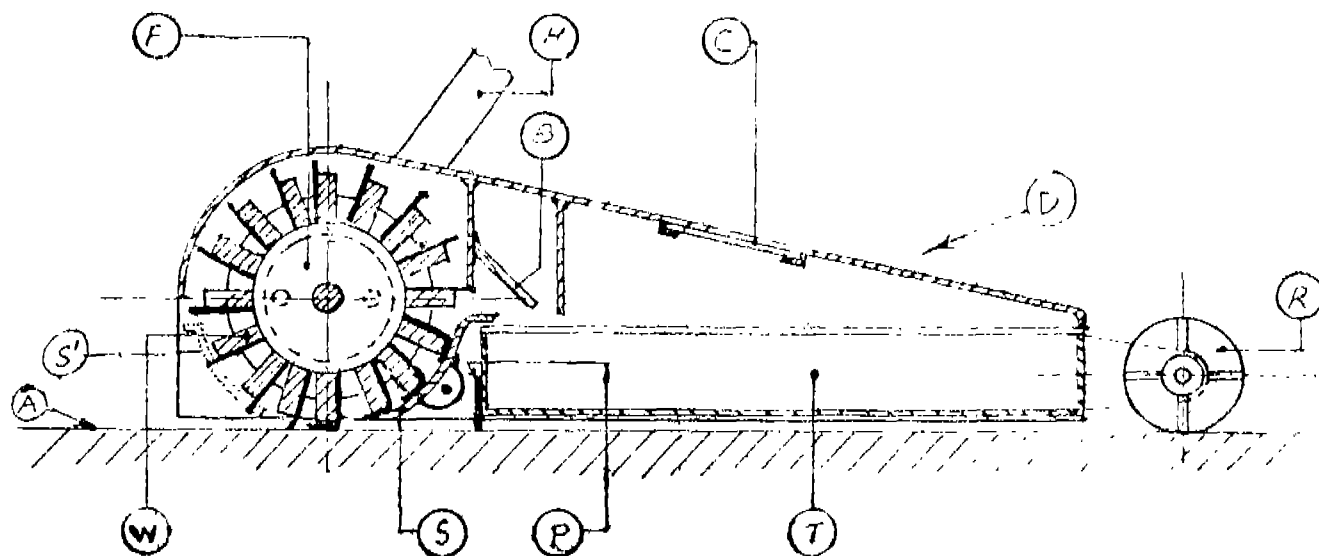
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A device for cleaning dirty surface, e.g. of floor/carpet, comprising, in assembly, an enclosed housing having an opening at the bottom of its front portion, a roller rotatably mounted within and at the said front portion of the housing, said roller having detachably or securely mounted around its surface a plurality of equi-angularly disposed blades of flexible material of sets of equi-angularly disposed brushes, said blades/brushes extending throughout the length of the roller and the tips of the blades/brushes projecting through the said bottom opening of the housing and being operatively in contact with a guide plates at the posterior side of the roller or with a pair of guide plates each at the posterior and at the anterior side of the roller, the guide plate at the posterior side being so disposed that the trailing edge thereof extends beyond and into a collecting through removably placed in the

rear portion of the housing, the latter being adapted to be mobile with the aid of the said roller at the front and two wheels provided at its rear end, and the said assembly

being further provided with a removable attachment for regulated flow and spreading of water or any other liquid along the front edge of the housing, as and when needed.



Compl. Specn. 10 pages.

Drgs. 2 sheets.

CLASS : 195-D.

164814

Int. Cl. : F 15 c 1/04.

#### ELECTROHYDRAULIC AMPLIFIER.

Applicant : VSESOJUZYNY NAUCHNO-ISSLEDOVATELSKY I PROEKTNO-KONSTRUKTORSKY INSTITUT PROMY-SHLENNYKH GIDROPRIVODOV I GIDROAVTOMATIKI-VNIIGIDROPRIVOD, OF KHARKOV, ULITS A SHATLOVA DACHA, 4, USSR.

Inventors : (1) BORIS IZRAILEVICH GOVZMAN, (2) EVGENY PAVLOVICH LIPCHANSKY, (3) VLADIMIR IEONTIEVICH STYAPIN.

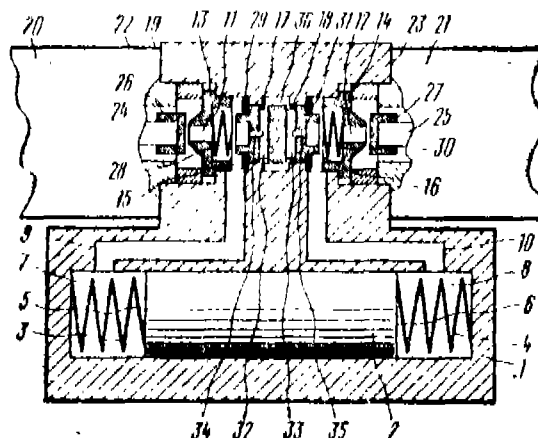
Application No. 229/Cal/86 filed March 20, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 1 Claim

An electrohydraulic amplifier comprising an electromechanical converter (19) with gates (26, 27) arranged at armatures (24, 25) of its electromagnates (20, 21); nozzles (13, 14) arranged coaxially with the gates (26, 27); a main control valve (2) end faces (5, 6) of which define with the interior of its housing (1) cavities (7, 8) communicating through passages (9, 10) with inlets (11, 12) of the nozzles (13, 14); characterized by an additional three-position control valve (16) arranged in a recess (15), said valve having recesses (17, 18) to which a flow of a working fluid is fed and which is arranged coaxially with the nozzles (13, 14) to be capable of displacement a distance greater than the width of its recesses (17, 18) in which additional control valve (16) there are made passages (32, 33) and which is provided with continuous flow restrictors (34, 35) equal in number to the number of nozzles (13, 14), the flow restrictors (34, 35) being secured in these

passages (32, 33) and connected to the recesses (17, 18) and inlets (11, 12) of the nozzles (13, 14).



Compl. Specn. 7 pages.

Drg. 1 sheet.

Class : 32<sub>1</sub>, F<sub>2</sub>(a) ;62-C<sub>1</sub>.

164815

Int. Cl. C 07 c 15/14; C 09 b 31/00.

#### PROCESS FOR PREPARING 4, 4'-DIAMINODIPHENYL COMPOUNDS.

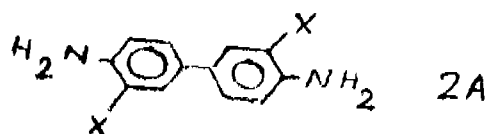
Applicant : HOECHST AKTIENGESELLSCHAFT, D-623 OF FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) KLAUS HUNGER, (2) HEINRICH FRÖLICH, (3) KURT CONRAD HABIG.

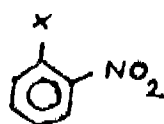
Application No. 238/Cal/86 filed March 24, 1986.

## 9 Claims

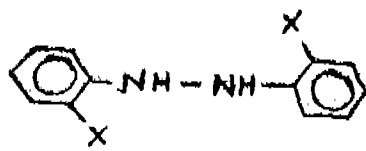
A process for preparing a 4, 4'-diaminodiphenyl compounds of the formula (1) of the accompanying drawings



in which X denotes the n-propyl, isopropyl, n-butyl, isobutyl, 1-methylpropyl, n-propoxy, isopropoxy, isobutoxy, 1-methylpropoxy or 2-methoxyethoxy radical and A is 0 or the equivalent of an inorganic acid, by reducing by known methods, such as with zinc dust, sodium amalgam, hydrogen in the presence of a metal catalyst or electrolytically a compound of the formula II.



in which X has the meaning mentioned in the compound of the formula III.



by treatment with an acid selection from the group consisting of mineral acids in aqueous or aqueous-alcoholic solution or hydrogen chloride in organic solvents or strong organic acids, analogously to known methods and isolating by the known methods the resulting product in the form of the free diamine, or its salt, of the formula I.

Compl. specn. 12 pages.

Drg. 1 sheets

CLASS : 32-E.

164816

Int. Cl. : C 8 f 1/00.

A CONTINUOUS TREATING PROCESS OF A RUBBER MODIFIED STYRENIC POLYMER COMPOSITION.

Applicant : (1) MITSUI TOATSU CHEMICALS, INCORPORATED, OF 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN. (2) TOYO ENGINEERING CORPORATION, OF KASUMIGASEKI BLDG., 2-5, KASUMIGASEKI 3-CHOME, CHIYODA-KU, TOKYO, JAPAN.

Inventors : (1) TETSUYUKI MATSUBARA, (2) NORIFUMI ITO, (3) MUNE IWAMOTO, (3) TOSHIHIKO ANDO.

Application No. 246/Cal/86 filed March 27, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims

A continuous treating process of a rubber modified styrenic polymer composition produced by bulk polymerization or solution polymerization and containing at least 1% by weight of a rubber component and at least 16% by weight of the total amount of an unreacted monomer and a solvent remaining therein comprising treating continuously the polymer composition in two steps to remove the unreacted monomer and other volatile components therefrom, which process being characterized by causing the polymer composition to pass through a first multi-tube preheater to be subjected to foaming while being heated at a temperature of 150 to 220°C in the preheater and to fall into a first volatizer directly connected with the preheater to remove volatized components, thereby obtaining the first treated composition containing 3-15% by weight of the unreacted monomer and solvent and causing the first treated composition to pass through a second multi-tube preheater to be subjected to foaming while being heated at a temperature of 190 to 230°C in the second preheater and fall into a second volatizer directly connected with the second preheater to further remove volatized components.

Compl. Specn. 37 pages.

Drg. 1 sheet.

CLASS : 32-F<sub>1</sub> - 55-E<sub>2</sub> + E<sub>4</sub>.

164817

Int. Cl. : C 07 c 39/24.

A PROCESS FOR THE PROCESS FOR PREPARATION OF SUBSTITUTED BIS PHENOL.

Applicant : COLETATE NOUVEL, OF 91 AVENUE DES TERNES, 75017 PARIS, FRANCE.

Inventor : GUM IJEUNE.

Application No. 288/Cal/86 filed April 14, 1986.

Convention dated 26th March, 1986 (U.K.) (8607469).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A process for the preparation of a substituted bisphenol by condensing a phenol carrying a halogen substituent in para position with respect to OH group, and at least one alkyl group, with an aldehyde having the formula RCHO in which R is H or a C<sub>1</sub> to C<sub>4</sub> alkyl group, in a solvent for the phenol in the presence of sulphuric acid, characterized in that the proportion of acid with respect to the phenol is such that, after the condensation and absorption by the acid of the water formed, the acid contains less than 50% of water by weight.

Compl. specn. 14 pages.

Drg. 1 sheet



CLASS : 105-B, C; 125-A, B; 3-C.

164818

Inventors : (1) ROWLAND EDGAR WHITFORD, (2) EDWARD BASTIJANIC.

Int. Cl. : G 01 f 23/00.

Application No. 353/Cal/86 filed May 06, 1986.

DEVICE FOR INDICATING THE QUANTITY OF A LIQUID IN A RESERVOIR AND RESERVOIR PROVIDED WITH SUCH A DEVICE.

6 Claims

Applicant : AEROSPATIALE SOCIETE NATIONALE INDUSTRIELLE, OF 37, BLD DE MONTMORENCY, 75016 PARIS, FRANCE.

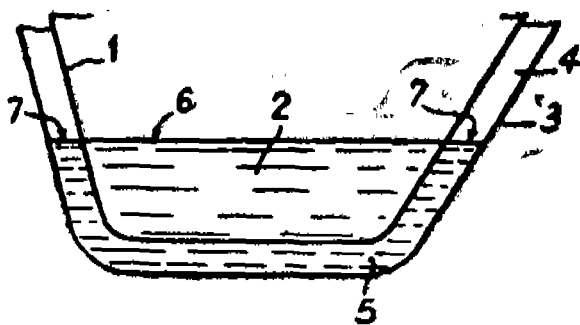
Inventors : (1) ROLLAND SARRAT, (2) JOSE VERGES.

Application No. 325/Cal/86 filed April 25, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims

In a device for indicating the quantity of a liquid contained in a reservoir or tank, measured by means of its level therein whatever the inclination of this reservoir with respect to the horizontal, comprising an auxiliary recipient which is fast with said reservoir and which contains an invariable quantity of an auxiliary liquid of which the level serves as reference for assessing the quantity of liquid contained at a given instant in said reservoir, the liquid in the reservoir is surrounded at least partially by said auxiliary recipient.



Compl. specn. 12 pages.

Drgs. 4 sheets

CLASS :

164819

Int. Cl. : H 03 m 112.

LOW LEVEL VOLTAGE PULSE CONVERTER.

Applicant : THE BABCOCK & WILCOX COMPANY, AT 1010 COMMON STREET, P.O. BOX 60035, NEW ORLEANS, LOUISIANA 70160, U. S. A.

2-107 GI/89

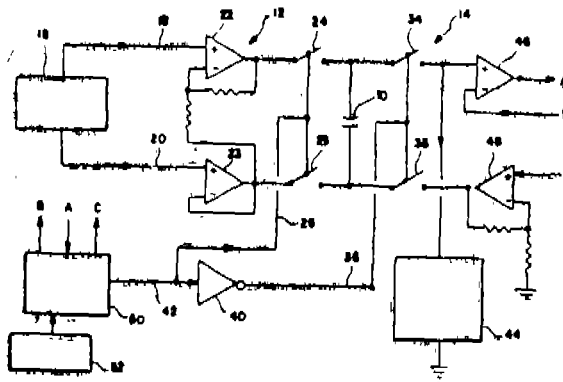
A converter for converting the differential of a pair of analog signals to a digital pulse, comprising :

a switching capacitor; an input circuit connectable to said switching capacitor for applying said pair of analog signals to said switching capacitor to charge said switching capacitor to a charge level which is proportional to said differential;

an output circuit connectable to said switching capacitor and including a constant current source for discharging said switching capacitor from its charge level to a selected low level during a discharging period;

switching logic means connected to said input and output circuits for connecting said input and output circuits one at a time to said switching capacitor for charging said switching capacitor during the charge period to its charge level which is proportional to said differential, and for discharging said switching capacitor during a discharging period over a constant current source down from the charge level to the selected low level said switching logic means connecting said switching capacitor to said input circuit for sufficient time to reach said charge level and connecting said switching capacitor to said output circuit for a time longer than said discharging period; and

pulse generating means connected to said output circuit for generating a digital pulse having a duration equaling said discharge period.



Compl. specn. 11 pages.

Drgs. 2 sheets

CLASS : 69-I.

164820

Int. Cl. : H 01 h 81/04.

**IMPROVEMENTS IN OR RELATING TO CIRCUIT BREAKER WITH FORCE GENERATING SHUNT.**

Applicant : WESTINGHOUSE ELECTRIC CORPORATION, OF WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURG, PENNSYLVANIA 15222, U S. A.

Inventors : (1) JERE LEE MCKEE, (2) GLENN ROBERT THOMAS, (3) CHARLES ELLSWORTH HAUGH, (4) LANCE GULA.

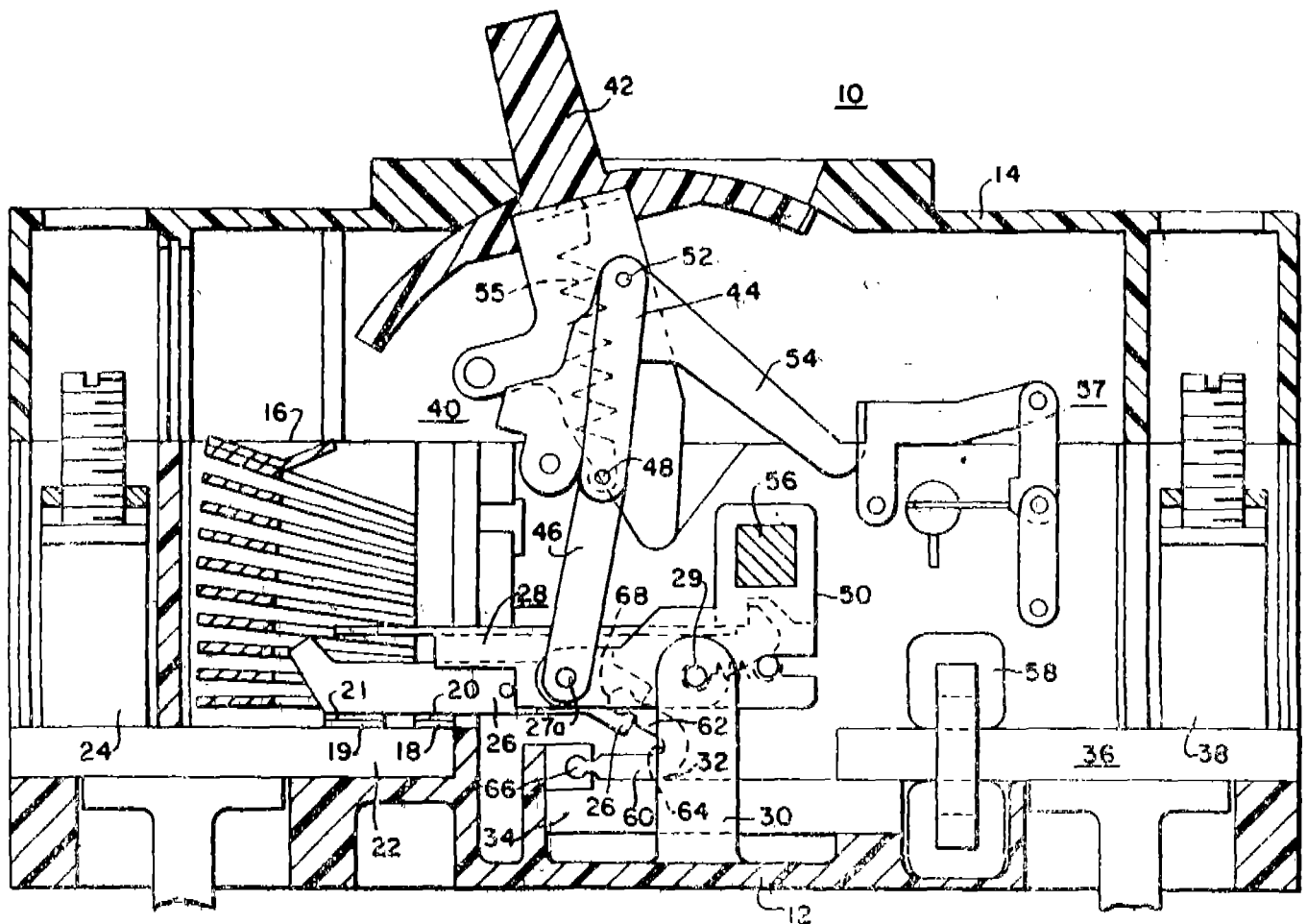
Application No. 542/Cal/86 filed July 18, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

A circuit breaker including an electrically insulating housing with an arc quenching chamber supporting a line conductor and a load conductor, a circuit breaker structure with-

in the housing and between the conductors and comprising first and second separable contacts operable between open and closed positions, a releasable mechanism movable when released to a tripped position to effect opening of the contacts and comprising a trip device for tripping the releasable mechanism, when a predetermined current overload effects deflection of the device from latched position, carrying means carrying the first contact and including a switch arm and contact arm, the switch arm being pivotally mounted at a first pivot for movement between open and closed positions of the contacts, the contact arm mounting the first contact and being pivotally mounted at a second pivot on the switch arm, the second contact being mounted on one of the line and load conductors, a flexible shunt electrically connected between the other of the line and load conductors and the contact arm on the side of the second pivot opposite the first contact, the flexible shunt comprising turned-back shunt portions spaced to form a loop and between which portions first repulsion magnetic forces are generated that exert pressure on the contact arm to hold the contacts in the closed position, and the repulsion magnetic forces of the shunt portions expediting movement of the carrying means about the first pivot to the other position when at least one of the contact arms and the trip device is deflected from a latched position



Int. Cl.<sup>4</sup> : G 01 D 1/04.

164821

**SYSTEM FOR MEASURING THERMAL STRESS OF PRESSURE-TIGHT TUBE.**

Applicant : BABCOCK-HITACHI KABUSHIKI KAISHA, OF 6-2, OHTEMACHI 2-CHOME, CHIYODA-KU, TOKYO, JAPAN, A CORPORATION ORGANIZED UNDER THE LAWS OF JAPAN.

Inventors : (1) ATSUSHI KURAMOTO, (2) YUKIO FUKAYAMA, (3) SHIGEYOSHI KAWANO.

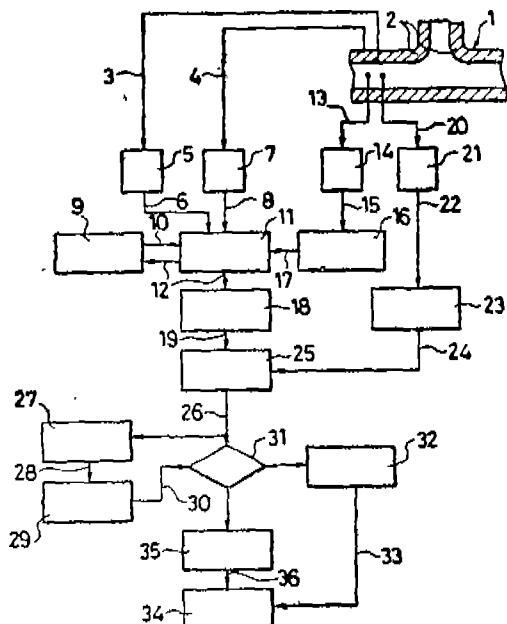
Application No. 302/Mas/85 filed April 20, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**4 Claims**

A unit for measuring thermal stress of a pressure tight tube having a metal portion and a fluid therein, comprising :

means for measuring temperature of at least the outer surface of said tube; temperature distribution calculating means for calculating distribution of temperature at positions equidistantly arranged in a direction of the thickness of said tube on the basis of measured values which comprises at least a measured value from said temperature measuring means of the outer surface temperature; the said calculated distribution of temperature is fed to the thermal stress calculating means for calculating thermal stress value of the metal portion of said tube, internal stress calculating means for calculating an internal pressure value in said tube obtained on the basis of a measured fluid pressure value provided by a pressure detector for measuring the pressure of the fluid in said tube; the internal pressure value thus obtained is added to the said thermal stress calculated value in a current stress calculating means to obtain the current thermal stress value.



Compl. specn. 23 pages.

Drgs. 3 sheets

Int. Cl.<sup>4</sup> : C 22 C 1/02.

164822

**A PROCESS FOR THE PREPARATION OF A CORROSION RESISTANT ALLOY.**

Applicant : STOODY DELORO STELLITE INC., A DELAWARE CORPORATION, OF SUITE 1510, 610 WEST ASH STREET, SAN DIEGO, CA 92101, U. S. A.

Inventors : (1) PRABHAT KUMAR, (2) VIDHU ANAND.

Application No. 303/Mas/85 filed April 23, 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**2 Claims**

A process for the preparation of a corrosion resistant alloy in the form of metal powder suitable for use in spray coating processes, comprising steps of blending the following elements, in weight percent, 7 to 19 silicon, upto 5 copper, 76—93 one or more elements selected from the group nickel cobalt and iron, heating the blend at a temperature of 1350°F and crushing the resultant product by any known manner.

Compl. specn. 11 pages

No. Drg.

Int. Cl.<sup>4</sup> : G 01 K 11/12.

164823

**A PACKAGE FOR STORING FOOD ARTICLES.**

Applicant : CIBA-GEIGY AG., OF KLYBECKSTRASSE 141, 4002 BASLE, SWITZERLAND, A SWISS CORPORATION.

Inventors : (1) STEPHEN RODERICK POSTLE, (2) ROY PATRICK BARBER.

Application No. 309/Mas/85 filed April 24, 1985.

Convention date April 25, 1984; (No. 84 10548; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

**2 Claims**

A package for storing food articles consisting of a conventional food packaging wherein at least an area of outer wall of the package is coated with a first gelatin layer containing an acidic reactant selected from phenolic compound, a dicarboxylic acid, a chloral reaction product, a Lewis acid activated acidic clay or silica gel and a second gelatin layer containing a colour former selected from phthalide, fluoran, leucoauramine, spirodipyrane, chromenoindeole, chromenopyrazole, phenoxazin, phenothiazin, quinazoline, carbazoylmethane, triarylmethane, rhodamine, lactam or azomethine compound and an encapsulated non-aqueous solvent selected from diethyl sepecinate, diethyl phthalate, 1-bromonaphthalene, dimethyl phthalate, dimethyl adipate, benzyl laurate, decyldecanoate, acetonephthalate butyl stearate, ethyl myristate, dimethyl succinate, benzyl-nyristate, benzyl palmitate, lauric acid, myristic acid or palmitic acid the said capsule capable of rupture at a predetermined temperature to allow the said non-aqueous solvent to mix with the said colour forming substance in presence of the said acid reactant to indicate a change of colour.

Compl. 22 pages.

Drgs. 2 sheets

Int. Cl. : C 08 F 2/02

164824

**AN IMPROVED PROCESS FOR THE POLYMERIZATION OF ALPHAOLEFINS IN A FLUIDING BED REACTOR.**

Applicant : UNION CARBIDE CORPORATION, A CORPORATION ORGANIZED UNDER THE LAWS OF THE STATE OF NEW YORK, OF OLD RIDGEBURY ROAD, DANBURY, STATE OF CONNECTICUT 06817, UNITED STATES OF AMERICA.

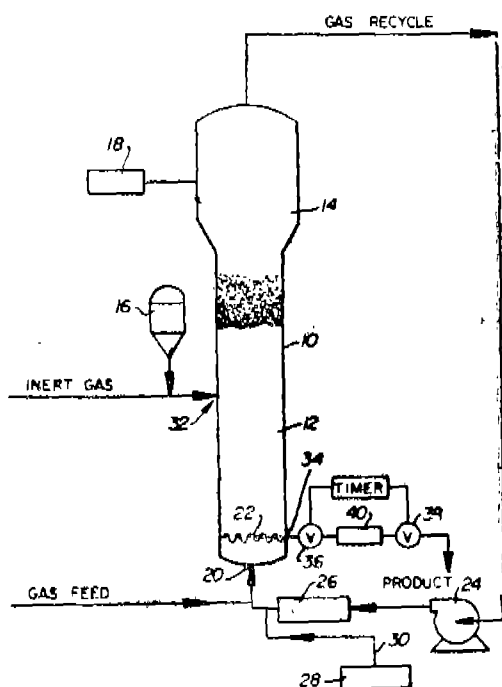
Inventor : BERNARD DWANE FULKS; STEVAN PAUL SAWIN; COLLIN DALE AIKIMAN; JOHN MITCHELL JENKINS.

Application No. 330/Mas/85 filed 30 April 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 12 Claims

An improved process for the polymerization of alpha-olefins in a fluidized bed reactor utilizing titanium based catalysts or other known catalysts prone to cause sheeting during said polymerization, wherein the static electric charge in said reactor at the site of possible sheet formation is maintained below static voltage levels which would otherwise cause sheet formation.



Compl. specn. 42 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup> : B 21 D, 13/04.

164825

A TUBING MILL FOR ROLL FORMING A STRIP OF METAL INTO A FLUTED TUBE AND A METHOD FOR THE SAME.

Applicant : ALLIED TUBE & CONDUIT CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, OF 16100 SOUTH LATHROP, HARVEY, ILLINOIS 60426, UNITED STATES OF AMERICA.

Inventor : THEODORE HERZL KRENGEL.

Application No. 352/Mas/85 filed 8 May 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 9 Claims

A tubing mill for roll forming a strip of metal into a fluted tube having alternating longitudinally extending high and low portions on its outside surface, said mill comprising :

feed means for supplying a generally planar strip of metal;

embossing means for forming said high and low portions on the surface of said strip to be formed into the outside surface of said tube;

breakdown means for sequentially transversely bending said strip from its generally planar conditions, said breakdown means comprising roller means having a gripping surface for engaging said strip and having alternating high and low portions shaped to mate with those of said strip;

closure means for bringing together the lateral ends of the bent portion of said strip; and

welding means for welding said lateral ends together.

Compl. specn. 13 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup> : B 03 D 1/02.

164826

A PROCESS FOR THE RECOVERY OF TUNGSTEN, TANTALUM, NIOBIUM AND ZIRCONIUM FROM ORES CONTAINING THEM BY FROTH FLOTATION.

Applicant : FISTA CHEMICALS A. G., A SWISS COMPANY, OF SEESTRASSE, 119, CH-8702 ZOLLIKON-ZURICH SWITZERLAND.

Inventors : ULRICH BILSING, HOLGER GRUNER, PETER DAVIES.

Application No. 378/Mas/85 filed 22 May 1985.

Conention date 22nd May 1989 No. 8413047 (U.K.).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 7 Claims

A process for the recovery of tungsten, tantalum, niobium and zirconium from ores containing them by froth flotation, wherein the ground ore containing at least one metal selected from the group tungsten, niobium tantalum and zirconium is pretreated in an acidic aqueous suspension with hexafluorosilicic acid, sodium hexafluorosilicate or sodium aluminium fluoride at a pH of from 3 to 5, whereafter the

liquid is wholly or partly separated from the pretreated ore, the pretreated ore is admixed with fresh water for adjusting the pH of the suspension to between 5 and 6.5 and the pulp density necessary for flotation and flotation is then carried out using an optionally substituted sulphosuccinimide, a phosphonic acid derivative of the general formula R-PO (CH<sub>2</sub>) in which R is an organic radical such as herein described or a salt thereof or an aminophosphonic acid or a salt thereof as a flotation agent and recovering the metal in a known manner.

Compl. specn. 14 pages.

Drg. Nil

Int. Cl.<sup>4</sup> : C 10 G 45/04.

164827

#### A PROCESS FOR DEWAXING A PETROLEUM FEEDSTOCK.

Applicant : MOBIL OIL CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF 150 EAST, 42ND STREET, NEW YORK, NEW YORK 10017, U. S.A.

Inventors : NAI YUEN CHEN; THOMAS FRANCIS DEGNAN, JR; SUSAN MARIN LEIBY; STEPHEN MICHAEL OLECK; BRUCE PATRICK PELRINE.

Application No. 384/Mas/85 filed 25th May 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Madras Branch.

#### 11 Claims

A process for dewaxing a petroleum feedstock having and initial boiling point of at least 371°C (700°F) and a 50 volume percent boiling point of at least 482°C (900°F) wherein said hydrocarbon is contacted in the presence of added hydrogen at a temperature of 232 to 427°C (450 to 800°F) with a dewaxing catalyst comprising aluminosilicate zeolite having a silica-to-alumina ratio of greater than 12 and a constraint Index of 1 to about 12 and wherein said aluminosilicate zeolite is composited with a known inorganic oxide binder and a known hydrogenation metal, the said catalyst composite has a maximum diffusion of less than 0.6 mm (0.025 inch) and recovering the dewaxed petroleum feedstock in a known manner.

Compl. specn. 23 pages.

Drgs. 3 sheets

Int. Cl.<sup>4</sup> : B 60 T 10/02.

164828

#### IMPROVEMENTS IN LIQUID LEVEL INDICATORS FOR VEHICLE HYDRAULIC SYSTEMS.

Applicant : LUCAS INDUSTRIES PUBLIC LIMITED, COMPANY, A BRITISH COMPANY, OF GREAT KING STREET, BIRMINGHAM 19, ENGLAND.

Inventor : GLYN PHILLIP REGINALD FAAR.

Application No. 385/Mas/85 filed May 27, 1985.

Convention date : May 29, 1984; (No. 8413635; United Kingdom).

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1974), Patent Office, Madras Branch.

#### 8 Claims

A liquid level indicator for a vehicle hydraulic system of the kind set forth, in which the reservoir contact is movably mounted, and the manually-operable means comprises an end cap for the reservoir, the end cap being mounted for movement between rest and test positions, and having retaining means, separate from the end cap, comprising at least one abutment to limit unward movement of the float relative to the reservoir, the arrangement being such that in normal operation the end cap is in the rest position in which the reservoir contact is stationary and the float contact is movable to indicate the liquid level, and or testing the end cap is moved into the test position, allowing the reservoir contact to move into engagement with the float contact, which is held stationary by the abutment.

Compl. specn. 10 pages.

Drgs. 2 sheets

Int. Cl.<sup>4</sup> : C 25 B 1/14, 1/26.

164829

#### BIOLAR ELECTROLYSIS APPARATUS WITH GAS DIFFUSION CATHODE.

Applicant : HOECHST AKTIENGESELLSCHAFT OF D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY, CHEMICAL MANUFACTURERS, A CORPORATION ORGANISED UNDER THE LAWS OF THE FEDERAL REPUBLIC OF GERMANY.

Inventors : RUDOLF STAAB; KURT HANNESSEN.

Application No. 387/Mas/85 filed 27 May 1985.

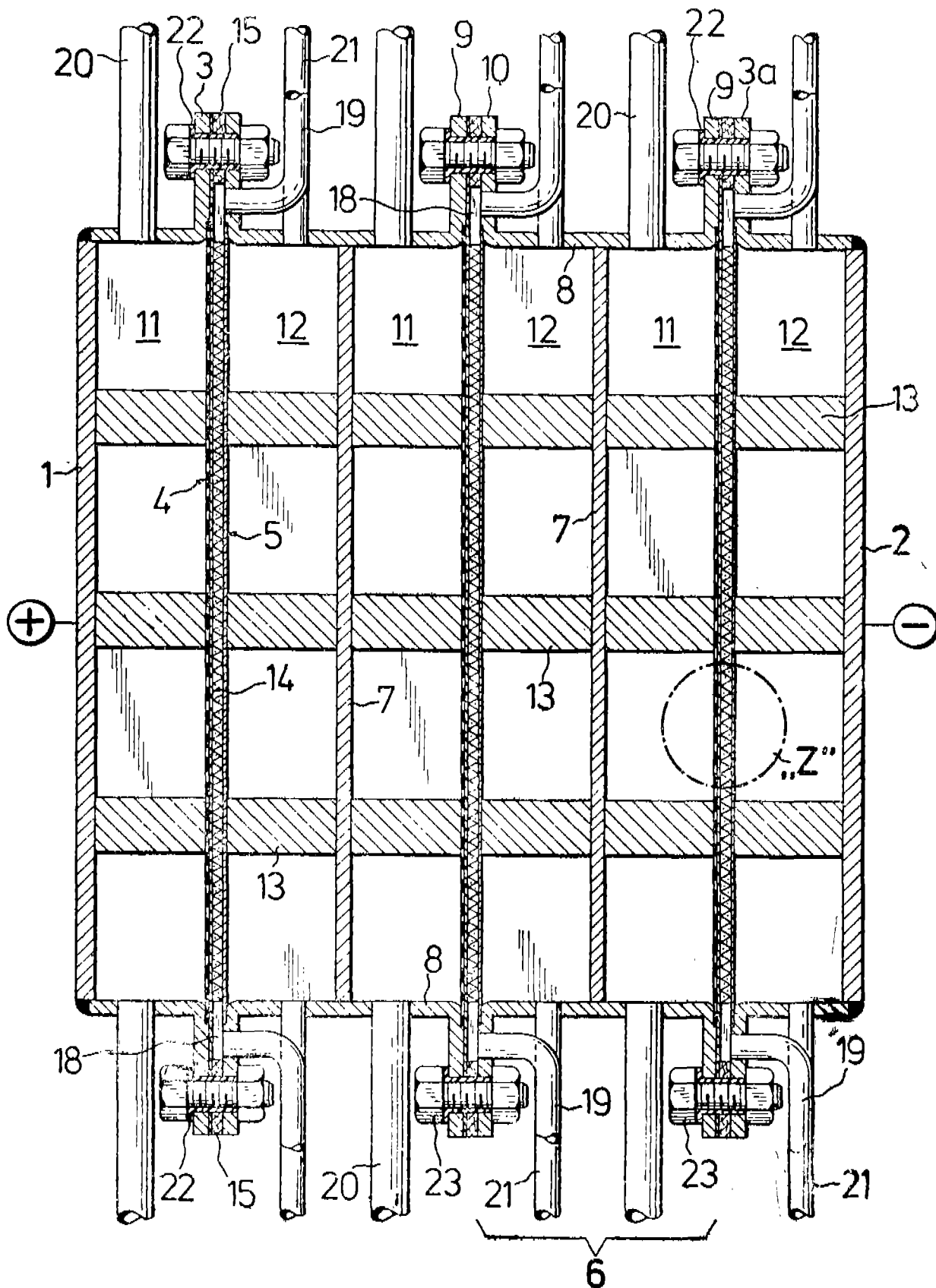
Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1974), Patent Office, Madras Branch.

#### 6 Claims

A bipolar electrolysis apparatus with an oxygen consuming cathode for the production of chlorine from aqueous alkali metal chlorine solution, with devices for supplying the electrolysis current and the electrolysis feed materials and for discharging the electrolysis output products, the anode and cathode being arranged to be separated from one another by means of a partition, which comprises at least one element (6) in the form of a twin trough located between two half-shells (1, 2) which have edges formed as a flange (3, 3a) and of which one carries an anode (4) and the second carries a cathode (5), which twin trough is formed by a common plate (7) and a lateral wall (8), the height of which is

divided by the plate and the edges of which are provided with flanges (9, 10), the anode (4) and the cathode (5) which are separated from one another in space by the plate (7) being electrically conductively connected to the wall (8) and to struts (13) which protrude vertically from the plate (7)

on both sides, the partitions (14) being clamped in-between the flanges (3, 3a, 9, 10) of the half shells (1, 2) and of the element (6), and sealing elements (15) being arranged in such a way that a cavity (16) is formed between the partition (14) and the cathode (5).



Int. Cl.<sup>4</sup> : C 08 L 67/00.

164830

A POLYMERIC COMPOSITION SUITABLE FOR MAKING ARTICLES SUCH AS CONTAINERS, CONTAINER PREFORMS OR SHEETS.

Applicant : OWENS-ILLINOIS PLASTIC PRODUCTS INC., OF ONE SEAGATE, TOLEDO, OHIO 43666, U.S.A. A CORPORATION OF THE STATE OF OHIO, U. S. A.

Inventor : SALEH ABD-EL-KARIM JABARIN.

Application No. 472/Mas/85 filed 25th June 1985.

Appropriate Office for Opposition Proceedings (Rule 4, Patents Rules, 1974), Patent Office, Madras Branch.

## 3 Claims

A polymeric composition suitable for making articles such as containers, container preforms or sheets comprising an intimate fusion blend of 80 to 90 weight per cent of a poly (ethylene terephthalate) and 10 to 20 weight per cent of a copolyester formed as the polymeric reaction product of reactants A and B wherein reactants A being selected from isophthalic acid, terephthalic acid, their C<sub>1</sub> to C<sub>4</sub> alkyl esters, and their mixture in any proportion, reactants B being 1, 3 bis (2-hydroxyethoxy) benzene plus ethylene glycol, wherein the amount of the 1, 3 bis (2-hydroxyethoxy) benzene is 5 to 90 mole percent of the amount of reactants A.

Compl. specn. 31 pages.

Drgs. 2 sheets

CLASS : 15-D.

164831

Int. Cl. : F 61 j 15/00.

## A MECHANICAL SEAL ASSEMBLY.

Applicant : DURAMETALLIC CORPORATION, 2104 FACTORY STREET, KALAMAZOO, MICHIGAN, U.S.A.

Inventors : (1) WILLIAM VICTOR ADAMS, (2) DUANE ARTHUR AVARD.

Application No. 378/Cal/85 filed May 18, 1985.

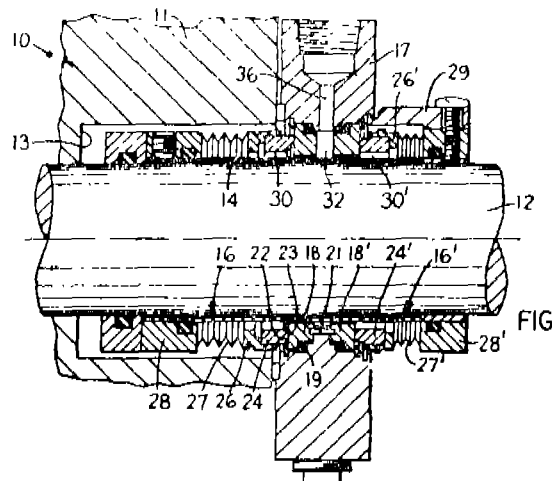
Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 10 Claims

A mechanical seal assembly for creating a sealed relationship between a housing and a rotatable shaft, the seal assembly including a seal rotor disposed within a cavity in the housing in surrounding relationship to the shaft and being sealingly and nonrotatably coupled thereto, the seal rotor defining an annular and axially directed rotatable seal face formed on one axial end thereof, a nonrotatable seal ring disposed in surrounding relationship to the shaft and nonrotatably secured relative to the housing, the nonrotatable seal ring having an annular axially directed stationary seal face formed thereon and maintained in sliding sealing engagement with said rotatable seal face, and a closed circulation system for recirculating coolant to effect cooling of said seal faces, the circulation system including a ring portion which is nonrotatably secured to the housing in surrounding relationship to the shaft, the ring portion being radially spaced from the shaft to form a substantially annular region therebetween, first and second openings extending through the ring portion for communication with said annular region at circumferentially spaced locations, and external conduit means connected between the outer ends of the first and second openings for

defining a closed circuit for coolant, the external conduit means being free of rotatable pumping devices the assembly characterised by :

obstruction means fixed to said ring portion and projecting into and substantially closing off said annular region to prevent flow of coolant through that portion of the annular region which extends from said second opening in the direction of shaft rotation to said first opening, the remainder of said annular region extending from said first opening in the direction of shaft rotation to said second opening defining an elongate arcuate passage for permitting coolant to flow there-through, and said shaft having an outer surface which defines a radially inner boundary of said annular region.



Compl. specn. 22 pages.

Drgs. 3 sheets

CLASS : 129-B, G.

164832

Int. Cl. B 21 c 25/00.

## AN APPARATUS FOR PRODUCING SEPARATED PIECES FROM AN EXTRUDATE ROPE.

Applicant : NABISCO BRANDS, INC., AT NABISCO BRANDS PLAZA, PARSIPPANY, NEW JERSEY 07054, U.S.A.

Inventors : (1) DANIEL A. KOPPA, (2) WALTER SCHAEEDER.

Application No. 39/Cal/85 filed May 25, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims

An apparatus for producing separated shaped pieces from an extrudate rope, comprising :

a die having a lower surface, said die being composed of a material such as herein described;

said lower surface having at least one indentation formed therein;

a means for driving said die in a cyclic operation having an upstroke and a downstroke, in which said die travels during a portion of its operation with a downward velocity as well as an upward velocity;

a means for conveying an extrudate rope under said lower surface of said die;

and at least one passage through a portion of said die;  
a supply of fluid communicating with said passage;

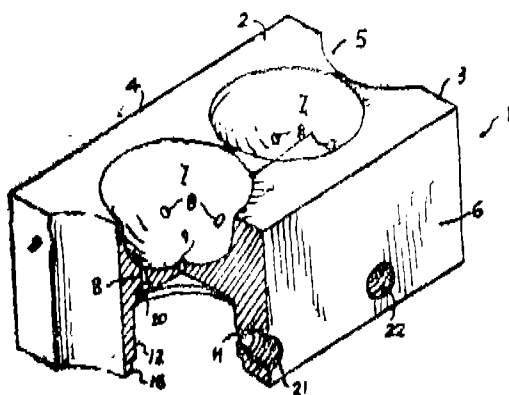
said die having a vertical leading surface and a vertical trailing surface;

a leading indentation intersecting a portion of said leading surface and said lower surface;

a trailing indentation intersecting said trailing vertical surface and said lower surface;

whereby said die moves downward against the extrudate rope to separate the extrudate rope into pieces, the lower surface of said die and said means for conveying forcing dough therebetween toward said at least one indentation, thereby forming the extrudate rope into pieces during cyclic operation of said die; and

whereby during a stamping operation said trailing indentation forms a leading edge of a piece of extrudate rope, while simultaneously said leading indentation conforms to a trailing edge of a trailing piece previously formed from extrudate rope.



Compl. specn. 28 pages.

Drgs. 4 sheets

CLASS :

164833

Int. Cl. : E 02 d 17/06.

CRIBBING DEVICE FOR TRENCHES.

Applicant : KRINGS INTERNATIONAL GMBH & CO. KG., OF AM WEIDENHOF 8, D-5138 HEINSBERG, WEST GERMANY.

Inventor : JOSEFF KRINGS.

Application No. 476/Cal/85 filed June 25, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims

A cribbing device for trenches which comprises a support, cribbing boards guided and supported on their face sides in or said supports, spreaders mounted or guided in the oppositely disposed supports, characterized in that there is provided :

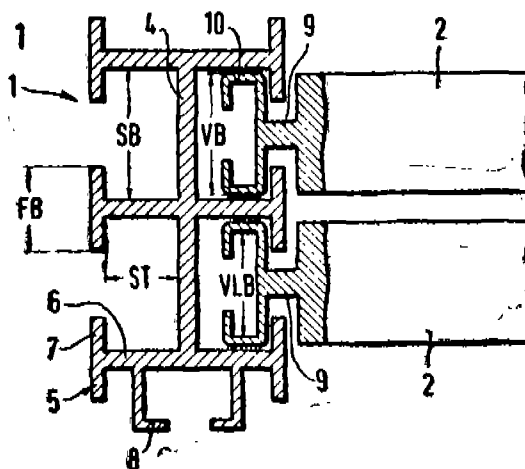
a pair of opposing supports space apart by a spreader, each support having a plurality of guide profiles and a cross piece, said crosspiece being disposed transversely to the longitudinal axis of the trench, said guide profiles being arranged adjacent each other on said crosspiece, and comprising a plurality of legs disposed vertically and extending outward from said crosspiece, and a plurality of flanges disposed vertically and secured to said legs at the ends of said legs opposite said crosspiece and projecting on both sides beyond said legs;

a plurality of cribbing boards each having a guide bar which supports a guide head, said guide head being in the form of a slotted hollow box section and extending vertically beyond said board at its vertical face side;

the width of each of said guide profile flanges being slightly smaller than the inside width of said guide heads with the slot of said guide heads corresponding to the legs of said guide profiles, and the inside spacings between the legs of the adjacent guide profiles being slightly larger than the total width of said guide heads;

so that said boards may be guided and supported by said supports by engaging said guide heads of said boards with said guide profiles of said supports;

thereby permitting said boards to be passed by each other on parallel planes and to be supported by said supports in a form-locked manner



Compl. specn. 13 pages.

Drgs. 3 sheets

CLASS :

164834

Int. Cl. : C 10 m 163/00.

A PROCESS OF PREPARING SULFURIZED COMPOSITION USEFUL AS LUBRICANT ADDITIVES.

Applicant : THE LUBRIZOL CORPORATION, 29400 LAKELAND BLVD., WICKLIFFE, OHIO 44092, U.S.A.

Inventor : REED HUBER WALSH.

Application No. 739/Cal/85 filed October 16, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

38 Claims

A process for preparing a sulfurized composition which comprises sulfurizing using sulfurizing agent as herein described a mixtures comprising :

(A) at least one terpene compound as herein described; and

(B) at least one other olefinic compound as herein described, the ratio of components (A) to (B) being 1 : 10 to 2 : 1.

Compl. Specn. 50 pages.

Drg. Nil



Int. Cl. : C 09 b 67/00.

164835

**PROCESS FOR PREPARING HIGHLY CONCENTRATED AQUEOUS PRESS CAKES OF ORGANIC SOLIDS.**

Applicant : HOECHST AKTIENGESSELLSCHAFT, D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) JOACHIM WEIDE, (2) ERWIN DIETZ, (3) REINHOLD DEUBEL.

Application No. 765/Cal/85 filed October 30, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**7 Claims**

A process for preparing a highly concentrated aqueous press cake of a water-insoluble or sparingly water-soluble organic solid with the exception said solid being an azo disperse dye, which comprises preparing an aqueous suspension of the respective solid containing one or more nonionic surfactants in an amount of 0.5 to 15 mg of surfactant per square meter of surface area of the solid said surfactant having a cloud point in aqueous solution substantially lose its hydrophilicity at a temperature above the cloud point, and isolating the solid at a temperature above cloud point of the surfactant (s) used by a conventional method and, if appropriate, liquefying the press cake at a temperature below the cloud point through the action of shearing forces.

Compl. specn. 18 pages.

Drg. Nil

Int. Cl. : C 09 b 67/00.

164836

**PROCESS FOR PREPARING HIGHLY CONCENTRATED AQUEOUS PRESS CAKES OF AZO DISPERSE DYES.**

Applicant : HOECHST AKTIENGESSELLSCHAFT, D-6230 FRANKFURT AM MAIN 80, FEDERAL REPUBLIC OF GERMANY.

Inventors : (1) JOACHIM WEIDE, (2) ERWIN DIETZ, (3) REINHOLD DEUBEL.

Application No. 766/Cal/85 filed October 30, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**8 Claims**

A process for preparing a highly concentrated aqueous press cake of an azo disperse dye, which comprises adding one or more nonionic surfactants in an amount of 0.5 to 15 mg of surfactant per square meter of dye surface area, said surfactant having a cloud point in aqueous solution and its hydrophobicity at a temperature above the cloud point, in the course of the preparation of the respective dye in an aqueous medium, at the latest before the dye in an temperature above the cloud point of the surfactants used by conventional method and, if appropriate, liquefying the press cake at a temperature below the cloud point through the action of shearing forces.

Compl. specn. 14 pages.

Drg. Nil

CLASS 32-F<sub>3</sub>C.

164837

Int. Cl. : B 01 j 11/00; C 07 c 133/00.

**A PROCESS FOR PRODUCING DIMETHYLAMINE.**

Applicant : E. I. DU PONT DE NEMOURS AND COMPANY, LOCATED AT WILMINGTON, DELAWARE, U. S. A.

3—107 GI/89

Inventors : (1) LLOYD ABRAMS, (2) THURMAN EUGENE GIER, (3) ROBERT DAY SHANNON, (4) GEORGE CARL SONNICHSEN.

Application No. 805/Cal/85 filed November 11, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**6 Claims**

A process for producing dimethylamine comprising reacting methanol and ammonia, in amounts sufficient to provide a carbon/nitrogen (C/N) ratio from about 0.2 to about 1.5, at a temperature from 250°C, in the presence of a catalytic amount of a neolite catalyst selected from the group of Category I, II or III as herein described.

Compl. specn. 57 pages.

Drg. Nil

CLASS : 194-C<sub>11</sub>.

164838

Int. Cl. : H 01 j 29/06.

**COLOUR PICTURE TUBES.**

Applicant : RCA CORPORATION, OF 30 ROCKEFELLER PLAZA, NEW YORK, 10020, U. S. A.

Inventors : WALTER DAVID MASTERTON.

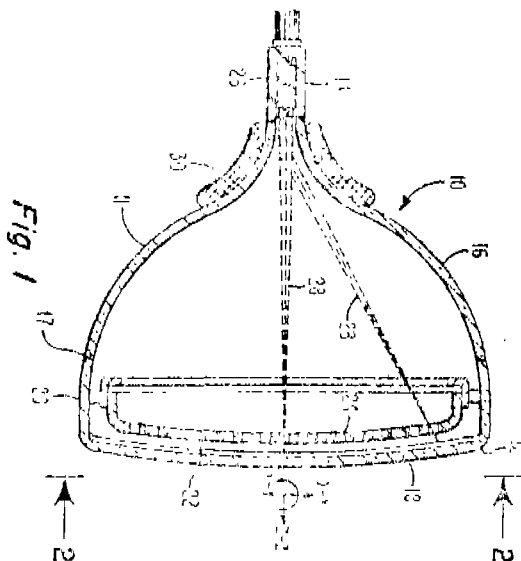
Application No. 887/Cal/85 filed December 09, 1985.

Convention dated 22nd May, 1985 (Canada) (482083).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

**3 Claims**

A color picture tube including a shadow mask mounted adjacent a cathodoluminescent line screen, said shadow mask including a major axis and a minor axis that is orthogonal to the major axis, said shadow mask including a plurality of slit-shaped apertures therein located in columns, said columns extending in the direction of the minor axis and being space from each other in the direction of the major axis, characterized in that the spacing along the major axis between adjacent aperture columns in the direction of the major axis increasing from center-to-edge of said shadow mask is approximately the fourth power of the distance along the major axis from the center of said shadow mask.



Compl. specn. 13 pages.

Drgs. 4 sheets

CLASS : 80-F.

164839

Int. Cl. : E 02 b 15/00.

## APPARATUS FOR HANDLING MIXTURES.

Applicant & Inventor : NOEL CARROLL, OF SHERBROOKE ROAD, SHERBROOKE, IN THE STATE OF VICTORIA, COMMONWEALTH OF AUSTRALIA.

Application No. 917/Cal/85 filed December 20, 1985.

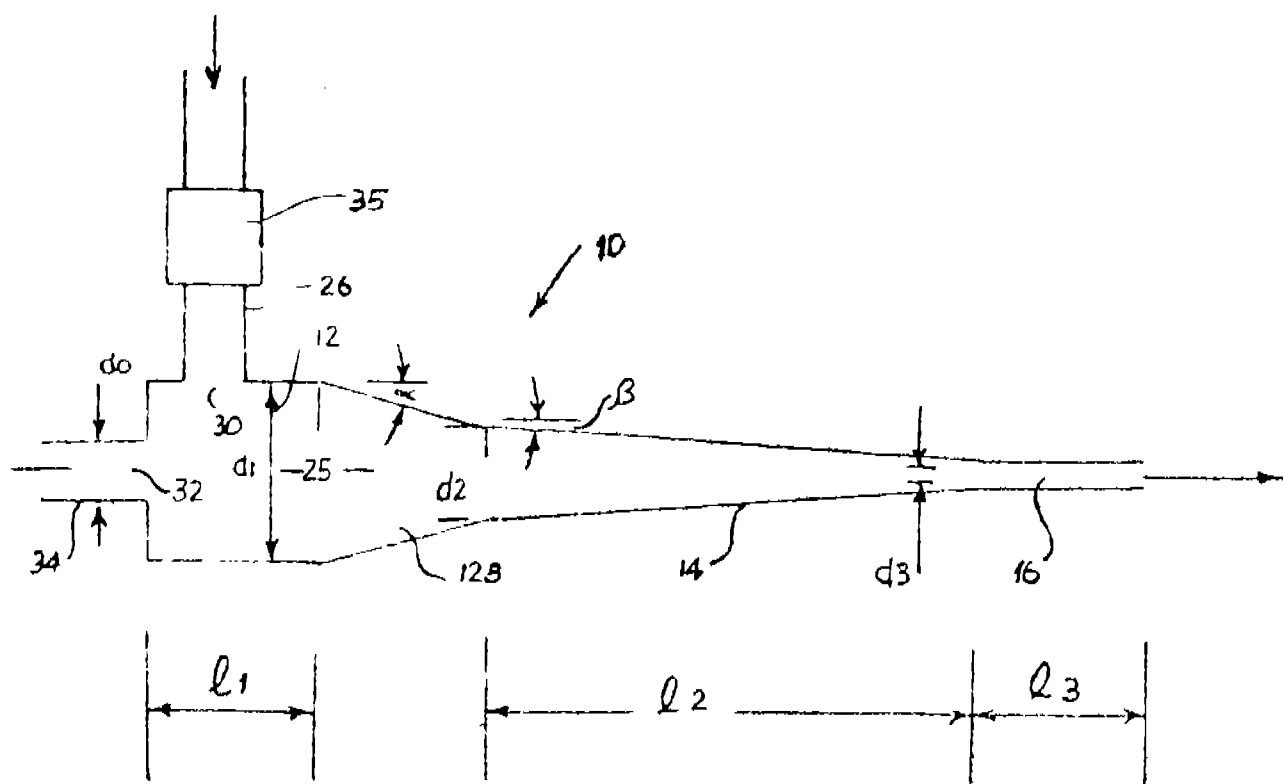
Convention dated 20th December, 1984 (PG 8657/84) and 7th February, 1985 (PG 9192/85) Both are Australia.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims

Apparatus for handling a mixture which contains at least oil and water components, the apparatus comprising at least

one cyclone separator comprising elements, designed, sized and arranged for separating a more dense component of the mixture from a less dense component, said separator comprising an elongated separating chamber with a larger cross-sectional dimension end and a smaller cross-sectional dimension end, at least one feed inlet at said larger end and first and second outlet means, said cyclone separator optionally forming part of a primary treatment section and/or secondary treatment section, the apparatus further including means for facilitating the removal of globs of oil present in the mixture before the mixture enters the cyclone separator, said means comprising a static mixer device operatively connected to the separator and in the flow path of the mixture to be admitted to the separating chamber through said feed inlet, said static mixer device being effective to homogeneously mix the components of the mixture passing therethrough before admission to the separation chamber so as to facilitate removal of any globs of oil present in the mixture.



Compl. specn. 20 pages.

Drgs. 4 sheets

CLASS : 185-A.

164840

Int. Cl. : A 23 f 3/04.

## AN IMPROVED C. T. C. MACHINE.

Applicant : TRADE & INDUSTRY PRIVATE LIMITED, OF 19 R. N. MUKHERJEE ROAD, CALCUTTA-700 001, WEST BENGAL, INDIA.

Inventor : OM PRAKASH BAGARIA.

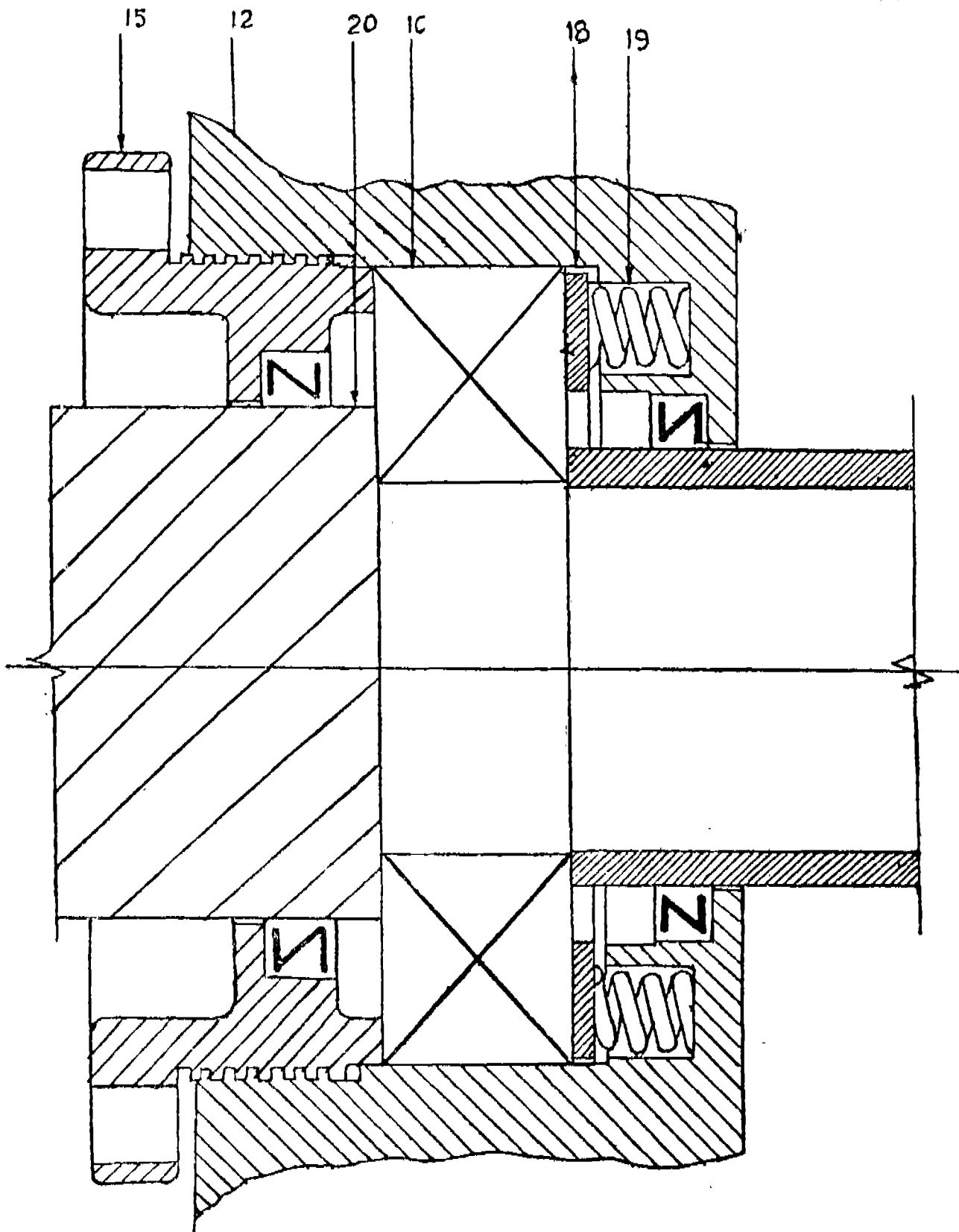
Application No. 928/Cal/85 filed December 24, 1985.

Complete Specification left on 26th June, 1986.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims

An improved C. T. C. machine for processing tea leaves, wherein improvement comprises in the adjustable roller system essentially including a slidable bearing and a pair of rollers, said bearing being accommodated within a housing and held between a threaded outer cover and a spring loaded inner plate, said spring being adapted to hold said inner plate against the bearing which is in abutment with said rollers.



Prov. specn. 8 pages.  
Compl. specn. 7 pages.

Drg. 1 sheet  
Drg. Nil

Int. Cl.<sup>4</sup> : F 16 B 2/06, 2/18, 2/14.

164841

**"ONE PIECE PLASTIC FASTNER".**

Applicant : MECHANICAL PLASTICS CORPORATION, A CORPORATION ORGANISED UNDER THE LAWS OF THE STATE OF NEW YORK, U.S.A., OF CASTLETON STREET, PLEASANTVILLE, NEW YORK, U. S. A.  
THOMAS WILLIAM M C SHERRY AND NATHANIEL HENRY CARFIELD.

Application for Patent No. 865/Del/85 filed on 16th October, 1985.

Appropriate office for opposition proceedings (Rule 4, Patent Rules, 1972), Patent Office Branch, New Delhi-110 005.

## 22 Claims

A one-piece, plastic fastener comprising :

a base portion;

means integrally connected to a first side of said base portion for securing an object thereto; said securing means being dimensioned and configured for contact with at least a substantial portion of the perimeter of said object; and

expandible locking means integrally connected to a second side of said base portion and having a collapsed position for insertion through an opening defined by a structural member and an overcenter expanded position to lock said fastener within said opening; whereby said object is attached to said structural member by said fastener, with said locking means comprising :

(a) a pair of connecting arms integrally connected to said second side of said base portion and extending outwardly away therefrom;

(b) a pair of toggle arms connected to lateral ends of said connecting arms and extending inwardly therefrom; and

(c) means connecting the inward ends of said toggle arms together for pivotal movement between said collapsed and expanded position and wherein, in said expanded position, said toggle arms are in said overcenter position with said fastener being thereby securely locked to said structural member.

Compl. specn. 30 pages.

Drgs. 10 sheets

Int. Cl.<sup>4</sup> : C 07 C 101/02.

164842

**"A PROCESS FOR THE PREPARATION OF A TERTIARY AMINO ACID".**

Applicant : EXXON RESEARCH AND ENGINEERING COMPANY, A CORPORATION OF DELAWARE, UNITED STATES OF AMERICA, CARRYING ON BUSINESS AS A COMPANY FOR THE HOLDING OF PATENTS AND GRANTING LICENSES THEREUNDER, AND TECHNICAL DEVELOPMENT AND RESEARCH WORK AT PARK AVENUE, FLORHAM PARK, NEW JERSEY, UNITED STATES OF AMERICA.

Inventors : GUIDO SARTORI AND WARRNER ALAN THALER.

Application for Patent No. 907/Del/85 filed on 30th October, 1985. Divisional to Application No. 785/Del/82 Filed on 29th October, 1982.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 3 Claims

A process for the preparation of a tertiary amino acid of the kind such as herein described which comprises reacting a corresponding mono-substituted amino acid of the kind such as herein defined with an unhindered aldehyde of the kind such as herein defined in the presence of a reductant of the kind such as herein defined and a catalytically effective amount of a conventional hydrogenation catalyst such as herein defined at temperature of from 20°C to 280°C and at superatmospheric pressures of 3.5 to 210.9 Kg/cm<sup>2</sup>.

Compl. specn. 22 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup> : B 64 D 17/40, 17/62.

164843

**"A PARACHUTE ASSEMBLY".**

Applicant : THE SECRETARY OF STATE FOR DEFENCE IN HER BRITANNIC MAJESTY'S GOVERNMENT OF THE UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND, A BRITISH CORPORATION SOLE OF WHITEHALL, LONDON SW1A 2HB, ENGLAND.

Inventor : DAVID JOHN JONES.

Application for Patent No. 938/Del/85 Filed on 11th November, 1985.

Convention date 19th November, 1984/8429202/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

## 3 Claims

A parachute assembly comprising a bag having a closed end and an openable end, a static line, a first end of said static line being attached to the parachute bag and a second end of said static line being attached to an aircraft, a pilot parachute and a main parachute of a ram air type within said bag, the pilot parachute being located near the closed end of said bag, rigging lines attached at one end to the main parachute and at the other end to a harness, a square piece of flexible material slidably mounted on said rigging lines, a bridle line attached at one end to said square and at the other end to the pilot parachute, so that on withdrawal from the bag, the pilot parachute deploys and develops and produces a tension on the bridle line and so maintains the square close to the main parachute, and thus delays the deployment of the main parachute until the harness is generally below the main parachute, at which stage the pilot parachute is generally masked permitting deployment of the main parachute because of the reduced tension in the bridle line and increasing drag on the main parachute.

Compl. specn. 12 pages.

Drgs. 4 sheets

Int. Cl.<sup>4</sup> : H 01 B 3/20, 17/50, 17/62.

164844

**"WATER BLOCKING COMPOSITION FOR CABLES".**

Applicant : SIC PLC, A BRITISH COMPANY, OF 190 STRAND, LONDON WC2R 1DU, ENGLAND.

Inventors : ERIC SIMPSON WALTER; IVOR BURY JOHN ROBERT AND ARNOLD JOINER DUDLEY.

Application for Patent No. 942/Del/85 Filed on 13th November, 1985.

Convention date 16th November, 1984/8429077/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 11 Claims

A water blocking composition for acable, the composition being hydrophobic and having thixotropic properties such that the viscosity of the composition may be temporarily reduced by mechanical shearing, the composition including a base fluid comprising a synthetic oil as herein described or a mixture of synthetic and mineral oils, and a thixotropic agent comprising hydrophobic pyrogenic silica, wherein the synthetic oil comprises at least 50% of the base fluid, and wherein the thixotropic agent comprises from 5 to 20 parts by weight for each 100 parts by weight of the base fluid.

Compl. specn. 15 pages.

Drgs. 3 sheets

Int. Cl.<sup>4</sup> : E 03 D 1/06.

164845

"SIPHON ASSEMBLY FOR FLUSHING CISTERNS".

Applicant : THOMAS DUDLEY LIMITED, A BRITISH COMPANY, OF P.O. BOX 28, NEW BIRMINGHAM ROAD, DUDLEY, WEST MIDLANDS DY1 4SN, ENGLAND, U.K.

Inventors : THOMAS IVOR DUDLEY AND HAROLD JOHN THOMAS DUDLEY.

Application for patent No. 964/Del/85 filed on 19 November, 1985.

Convention date 30th November, 1984/8430361/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 5 Claims

A siphon assembly for a flushing cistern, said assembly comprising an inverted generally U shaped duct having an up leg and a down leg, a first portion including the duct down leg having a lower end formation to be mounted in the base of the cistern in use to form an outlet and to locate the assembly operatively therein, a second portion including the duct up leg being provided with an enlarged chamber at its open lower end to receive a vertically displaceable piston by means of which, in use, a siphonic action is initiated for discharge of the cistern in known manner, and securing means releasably locating said portions in operative relationship with fluid tight connection between the legs of the duct, characterised in that the second portion includes an integral or permanently attached inverted U section of the duct forming the fluid connection between the up leg and down leg thereof; the fluid tight connection is a push-in fluid tight spigot and socket joint between an upper end of the down leg and said U section; and said securing means comprises a releasable connection between first formations on each portion adjacent to the operatively upper ends of the legs which are brought into alignment with each other when said fluid tight connection is fully made, said releasable connection inter-engaging said formations in use to prevent relative displacement of the duct portions in a direction which would disengage the spigot and socket joint, and second formations on each portion adjacent to the operatively lower ends of said legs which are mutually engageable and shaped to provide mating profiles maintaining the legs in parallel or other predetermined lateral relationship.

Compl. specn. 11 pages.

Drgs. 2 sheets

Int. Cl.<sup>4</sup> : B 01 F 17/36.

164846

"PROCESS FOR THE PREPARATION OF A COMPOUND USEFUL AS A PIGMENT DISPERSANT".

Applicant : INTERNATIONAL PAINT PUBLIC LIMITED COMPANY, A BRITISH COMPANY, OF 18 HANOVER SQUARE, LONDON. W1A 2BB, UNITED KINGDOM.

Inventors : KEITH YEATS, IAN DAVID EELES AND GRAHAM CHARLES BATTERSBY.

Application for Patent No. 968/Del/85 Filed on 19th November, 1985.

Convention date 23rd November, 1984/8429686/(U.K.).

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110005.

#### 21 Claims

A process for the preparation of a compound useful as a pigment dispersant, wherein a polyfunctional epoxy compound Y of molecular weight less than 600 which contains at least three functional groups of the kind such as herein described, at least one of which is an epoxy group, is reacted successively or simultaneously (i) with at least one reactive long-chain compound of the form R-X, where R is a solvent-compatible organic radical of the kind such as herein described having a molecular weight of at least 200, provided that the average molecular weight of the solvent-compatible radicals R in the compound(s) of the form R-X in the proportions reacted with the compound Y is at least 500, and X is a functional group of the kind such as herein described capable of reacting with the compound Y, and (ii) with a polar compound of the form Z-X, where Z is a pigment-compatible radical of the kind such as herein described containing a polar group and X is a functional group of the kind such as herein described capable of reacting with the compound Y, the relative proportion of the compounds R-X and Z-X; used being such that more than one solvent-compatible organic radical R is bonded to the compound Y.

Compl. specn. 36 pages

Drg. 1 sheet

Int. Cl.<sup>4</sup> : B 21 B 31/32.

164847

ROLLING MILL ROLL STAND.

Applicant : MORGAN CONSTRUCTION COMPANY, A CORPORATION ORGANISED UNDER THE LAWS OF THE COMMONWEALTH OF MASSACHUSETTS, UNITED STATES OF AMERICA, OF 15 BELMONT STREET, WORCESTER, MASSACHUSETTS, UNITED STATES OF AMERICA.

Inventor : MARTIN GILVAR.

Application for Patent No. 995/Del/85 filed on 26th November, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 10 Claims

A rolling mill roll stand comprising :

- a housing removably mounted on a bridge;
- a pair of work rolls and their respective bearings and bearing chocks mounted in said housing;

separating means located between said bearing chocks for maintaining a gap between said work rolls; and

hydraulic roll positioning means permanently carried by said bridge for acting on the bearing chocks of one of said work rolls in opposition to roll separating forces acting on said one work roll, the roll separating forces acting on the other said work being opposed by said housing;

said housing together with said work rolls, bearing chocks and separating means being mounted as a unit on said bridge, said unit being removable from the bridge while allowing said hydraulic positioning means to remain undisturbed.

Compl. specn. 15 pages.

Drgs. 5 sheets

Int. Cl.<sup>4</sup> : D 03 D 49/26.

164848

WHEEL, MORE PARTICULARLY A PICKING BAND WHEEL OF A WEAVING MACHINE.

Applicant : SULZER BROTHERS LIMITED, A SWISS COMPANY, OF CH-8401 WINTERTHUR, SWITZERLAND.  
Inventors : RUDOLF HELLER AND HEINER KERN.

Application for Patent No. 1073/Del/85 filed on 17th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 11 Claims

A wheel, more particularly a picking band wheel of a weaving machine, the wheel comprising a hub (10) and a body (1) operatively connected thereto, characterised in that the wheel body (1) is subdivided, near a radial connecting plane (VE) disposed on the axial width, into a first wheel disc (2) having an end wall (4) and into a second wheel disc (12) having an end wall (14); and the end walls (4, 14) are subdivided into first spoke parts (3, 13) and second spoke parts (5, 15) distributed around the periphery and corresponding to one another, each second spoke part (5, 15) having a wall (8, 18) which extends inwards pocket-fashion and which forms on the connecting plane (VE) a substantially crossing wall structure, the wall (8, 18) being operatively connected to annular wall parts (6'', 16'') subdivided into segments disposed on the periphery.

Compl. specn. 13 pages.

Drgs. 2 sheets

Int. Cl.<sup>4</sup> : B 64 G 1/24, 1/38.

164849

A SYSTEM FOR REDUCING SPACECRAFT INSTRUMENT POINTING ERRORS CAUSED BY INSTRUMENT-MOTION-INDUCED SPACECRAFT MOTION.

Applicant : FORD AEROSPACE & COMMUNICATIONS CORPORATION, A CORPORATION OF THE STATE OF DELAWARE, UNITED STATES OF AMERICA, HAVING A PRINCIPAL PLACE OF BUSINESS AT 300 RENAISSANCE CENTER, DETROIT, MICHIGAN 48243, UNITED STATES OF AMERICA.

Inventors : CARL THOMAS PLESCIA AND DONALD WILLIAM GAMBLE.

Application for Patent No. 1074/Del/85 filed on 17th December, 85.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 4 Claims

A system for reducing spacecraft instrument pointing errors caused by instrument-motion-induced spacecraft motion, said system comprising :

at least one instrument mounted on a spacecraft and disposed to point towards predetermined locations external to the spacecraft;

coupled to each instrument, motive means for changing the pointing direction of the instrument;

coupled to each motive means, commanding means for commanding motion in the instrument; and

compensating means for compensating errors in spacecraft motion induced by instrument motion, said compensating means having its input and to receive signals therefrom and its output and coupled to each of the motive means for sending signals thereto.

Compl. specn. 15 pages.

Drg. 1 sheet

Int. Cl.<sup>4</sup> : B 01 F 17/36.

164850

"PROCESS FOR THE PREPARATION OF A DISPERSANT SALT SUITABLE FOR FORMATION OF STABLE AQUEOUS DISPERSANT COMPOSITIONS".

Applicant : THE LUBRIZOL CORPORATION, A CORPORATION OF THE STATE OF OHIO, U.S.A., OF 29400 LAKELAND BOULEVARD, WICKLIFFE, OHIO 44092, UNITED STATES OF AMERICA.

Inventor : ROBERT EDWIN QUINN.

Application for Patent No. 1079/Del/85 Filed on 18th December, 1985.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office Branch, New Delhi-110 005.

#### 11 Claims

A process for the preparation of a dispersant salt suitable for use in the formation of stable aqueous dispersant compositions of particles or fluids such as herein described which comprises reacting at least one polycarboxylic acid acylating agent having at least one hydrocarbon-based substituent of at least 8 to 500 carbon atoms with at least one poly (alkyleneamine) to form a phosphorus-free carboxylic stabiliser and reacting the carboxylic stabiliser thus formed with a mineral acid of the kind described herein or sulfonic acid-free organic acid of the kind described herein.

Compl. specn. 36 pages.

Drg. 1 sheet

#### REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

Class 1. No. 160289. Sohan Lal Gupta, 4/20, Bhola Nath Nagar, Shahdara, Delhi-32, India, Indian. "Lock". 17th October, 1988.

Class 1. No. 160301. AEG Aktiengesellschaft, Theodor-Stern-Kai 1, D-6000 Frankfurt 70 West Germany, a West German Company. "Switch Box". 21st October, 1988.

Class 1. No. 160304. Parivar Enterprises of Plot No. 6, Near Himalaya Industries, Andheri-Sakina, Link Road, Asalpha, Ghatkopar (West), Bombay-400 084 Maharashtra State, India. "Engraving Machine". 24th October, 1988.

Class 1. No. 160351. Raj Kumar Sah, Rajendra Kumar Sah and Ravindra Kumar Sah, all Indians, trading as Raj Kumar Sah & Sons, a Firm registered under the Indian Partnership Act, all of Chetganj, Varanasi-221001, Uttar Pradesh, India. "Name Plate particularly for Table Fans". 3rd November, 1988.

- Class 1. No. 160549. Ramamoorthy Srinivasan, 15, North Mada Street, Srinagar Colony, Madras-600 097, Tamil Nadu, India, Indian National. "Keys for interlocks". 14th December, 1988.
- Class 1. No. 160598. Piggio & C. S. P.A., a company organised under laws of the Italian Republic of Via A. Ceehi, 6-Genova, Italy. "a MOPED". 30th December, 1988.
- Class 1. No. 160691. Bajaj Auto Limited, Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Scooter". 27th January, 1989.
- Class 3. No. 160236. Choksons Private Ltd., an Indian Company, of Saki Vihar Road, P.O. Box 843, Powai Bombay-400 072, Maharashtra, India, and also at Tavawala Building, Pathak Wadi, Bombay-400 002 Maharashtra, India. "D. P. Switch with Fuse". 10th October, 1988.
- Class 3. No. 160239. Choksons Private Ltd., an Indian Company, of Saki Vihar Road, P.O. Box 843, Powai, Bombay-400 072, Maharashtra, India, and also at Tavawala Building, Pathak Wadi, Bombay-400 002, Maharashtra, India. "Architrave". 10th October, 1988.
- Class 3. No. 160296. Australian Telecommunications Commission, a body Corporate established under the Telecommunications Act, 1975, of 199 William Street, Melbourne, 3000, in the State of Victoria, Commonwealth of Australia. a "Telephone". 21st October, 1988.
- Class 3. No. 160312. Teknic Electromechanics Pvt. Ltd., Shed No. 2C, Udupa Gardens, S. M. Road, Dasarahalli, Bangalore-560057, Karnataka, an Indian Company. "Electric Control Device". 25th October, 1988.
- Class 3. No. 160357. F. F. Seeley Nominees Pvt. Ltd. of 1-11 Rathesay Avenue, St. Marya, State of South Australia, Commonwealth of Australia, a company incorporated under the laws of the State of South Australia. "An Air Conditioner". 7th November, 1988.
- Class 3. No. 160391. The Parker Group Inc., a company organised under the laws of the commonwealth Massachusetts, United States of America, of 10 Bear Foot Road, Northboro, Massachusetts 01532, United States of America. a "Trigger-Actuated Glue Gun". 15th November, 1988.
- Class 1. Nos. 160452 & 160453. Lion Pencils Private Limited, a company incorporated under the provisions of Indian Companies Act, at Andrew Nagar, S. V. Road, Dahisar, Bombay-400 068, State of Maharashtra, India. "Pencil". 29th November, 1988.
- Class 3. No. 160551. Mipak Plastics Private Limited, having registered office at 16, Khetan Bhavan, Jamshedji Tata Road, Bombay-400 020, Maharashtra, India, an Indian Organisation. "Containers". 16th December, 1988.
- Class 3. No. 160584. British Telecommunications Public limited company, a British Company of 81 Newgate Street, London, EC1A 7AJ, England. a "Telephone Handset". Reciprocity date is 22nd June, 1988. (U.K.).
- Class 3. No. 160585. British Telecommunications Public limited company, a British Company of 81 Newgate Street, London, EC1A 7AJ, England. a "Telephone Base Station". Reciprocity date is 22nd June, 1988. (U.K.).
- Class 3. No. 160612. Abdul Rahman Faqir Mohamed of 21 Easwardas Street, Triplicane, Madras-600 005, India, an Indian Citizen. a "Folding-type Mini-billiards Table". 30th December, 1988.
- Class 3. No. 160623. International Business Machines Corporation, a Corporation organised and existing under the laws of the State of New York, United States of America, of Armonk, New York 10504, United States of America. "a Container for Computer Program Materials". Reciprocity date is 8th July, 1988. (U.K.).
- Class 3. No. 160625. Indrol Lubricants & Specialities Limited, Incorporated in India, White House, 91 Walkeshwar Road, City of Bombay-400 006, State of Maharashtra, India. "Container". 6th January, 1989.
- Class 3. No. 160638. Shree Krishnakshav Laboratories Limited, Amraiwadi Road, Ahmedabad-380 008, Gujarat, India. "Hollow Stopper for bottle for medical purpose". 11th January, 1989.
- Class 3. No. 160692. Bajaj Auto Limited., Akurdi, Pune-411 035, Maharashtra, India, an Indian Company. "Scooter". 27th January, 1989.
- Class 4. No. 160358. M/s. Morton Dairy, an Indian Partnership firm. "Bottles". 10th November, 1988.
- Class 4. No. 160481. Veena Perfumery Company, also as Sohan Singh Attarwala & Son, 1875/79, Karmon Deori, Amritsar, Punjab, India, and also at 6484, Katra Baryan, Fatehpuri, Delhi-110006, Union territory of Delhi, a Partnership firm registered under the Indian Partnership Act, 1932. "Bottle". 1st December, 1988.
- Class 10. No. 160429. Omega Polymicrons Private Limited, an Indian Private Limited concern, Subhash Bazar, Mawana-250401 Distt. Meerut (U.P.) India of above address. "Shoe Sole". 25th November, 1988.
- Class 10. No. 160431. Jagadamda Udyog, an Indian Proprietary concern, Kirti Nagar Industrial Area, New Delhi-110015, India. "Shoe Sole". 25th November, 1988.

R. A. ACHARYA,  
Controller General of Patent,  
Designs & Trade Marks

